

| Files | | Sanding | | | | | | |
|-----------------|---|---------|-------------------|---|------|--|--|--|
| | Flat hand engineer's files | 1652 | | Grinding points | 1692 | | | |
| | Precision files | 1655 | 1 | Flap wheels, fleece grinding points | 1695 | | | |
| | Diamond files | 1661 | Finishing, polish | ing and satin-finishing | | | | |
| Rough grinding | and cutting | | | Finishing grinding points | 1697 | | | |
| | Rough grinding and sanding discs | 1665 | | Felt polishing grinding points | 1699 | | | |
| | Cutting discs and diamond cutting discs | 1666 | | Satin-finishing tools | 1700 | | | |
| Deburring and c | leaning | | Honing stones | | | | | |
| | Abrasive flap disc and angle grinding mop wheel | 1670 | | INDIGA oil stones | 1701 | | | |
| | Milling bits | 1674 | | Silicon carbide grinding stones and files | 1702 | | | |
| | Power brushes and internal cleaning brushes | 1680 | RECORD ARRAHAM | RECORD ARKANSAS oil stones | 1704 | | | |
| • | Bristle grinding brushes | 1683 | | DEGUSSIT grinding stones and files | 1706 | | | |
| | Coarse cleaning discs | 1684 | | Hard ARKANSAS oil stones | 1709 | | | |
| Sanding | | | | Diamond honing stones | 1711 | | | |
| (+) | Fibre discs | 1685 | Honing | | | | | |
| 3 | Sandpaper and sanding belts | 1686 | <u> </u> | Honing tools | 1711 | | | |
| | Fleece abrasive flap discs and fleece | 1689 | Precision sanding | ng discs and dressing tools | | | | |
| | discs Deburring sanding block discs | 1689 | | Diamond and CBN (cubic boron nitride) cup wheels | 1712 | | | |
| | DODGETHING SAMULING DIOCK UISCS | 1009 | W.1 | Sanding disc dressing tools for stationary machines | 1712 | | | |
| | Abrasive fleece and hand pads | 1690 | | Sanding disc dressing tool for manual use | 1713 | | | |

| Precision sanding discs and dressing tools | | | | | | | | | |
|--|-------------------------------|------|--|--|--|--|--|--|--|
| | Cleaning stones | 1714 | | | | | | | |
| | Hand lapping tool | 1714 | | | | | | | |
| Surfactants | | | | | | | | | |
| | Cleaning agents and towels | 1715 | | | | | | | |
| Sealants, adhesi | ive tapes and markers | | | | | | | | |
| 0 | Adhesive and insulating tapes | 1717 | | | | | | | |
| 77 | Marking equipment and markers | 1719 | | | | | | | |



INTERIOR Flat hand engineer's file, flat blunt-ended

Application: For manual material removal with steel materials.

| Form | Equ | alling | Equa | alling | Equ | alling | Equa | alling | Equa | alling | Equ | alling | Equ | alling | |
|------------------------|---------------|--------|---------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--|
| File blade length (mm) | 1 | 00 | 1: | 50 | 2 | 00 | 2 | 50 | 3 | 00 | 3 | 50 | 4 | -00 | |
| Width (mm) | 12.0 16.0 2 | | 20 | 0.0 | 25.0 | | 30.0 | | 35.0 | | 39.0 | | | | |
| Thickness (mm) | 3.0 | | 4 | .0 | 5.0 | | 6.3 | | 7.0 | | 7.5 | | 9.0 | | |
| File cut | 51490 | | 51490 | | 51490 | | 51490 | | 51490 | | 51490 | | 51490 | | |
| | ID no. | | ID no. ID no. | | | ID no. | |
| 1 | 110 | O. R. | 115 | O. R. | 120 | O. R. | 125 | O. R. | 130 | O. R. | 135 | O. R. | 140 | O. R. | |
| 2 | 210 | O. R. | 215 | O. R. | 220 | O. R. | 225 | O. R. | 230 | O. R. | 235 | O. R. | - | - | |
| 3 | 310 | O. R. | 315 | O. R. | 320 | O. R. | 325 | O. R. | 330 | O. R. | 335 | O. R. | - | - | |
| | Unit price, € | | | | | | | | | | | | | | |

Prod. group 599

Application

ORION®

Half-round flat hand engineer's file

Trail Touris nat hard engineer of inc

| Application. | | |
|---------------------|--------------|------------------|
| For manual material | removal with | steel materials. |

| Form | Half- | Half-round H | | Half-round Half-round | | round | Half-round | | Half-round | | Half-round | |
|------------------------|-----------|---------------|-----------|-----------------------|--------|-------|------------|-------|------------|-------|------------|-------|
| File blade length (mm) | 1 | 00 | 150 | | 200 | | 250 | | 300 | | 350 | |
| Width (mm) | | | 16.0 21.0 | | 25 | 25.0 | | 30.0 | | 35.0 | | |
| Thickness (mm) | 4 | 4.0 | | 5.0 | | .0 | 7.0 | | 9.0 | | 10.0 | |
| File cut | 5149 | 51492 | | 2 | 51492 | | 51492 | | 51492 | | 51492 | |
| | ID no. ID | | ID no. | | ID no. | | ID no. | | ID no. | | ID no. | |
| 1 | 110 | O. R. | 115 | O. R. | 120 | O. R. | 125 | O. R. | 130 | O. R. | 135 | O. R. |
| 3 | 310 | O. R. | 315 | O. R. | 320 | O. R. | 325 | O. R. | 330 | O. R. | - | - |
| 2 | - | ı | 215 | O. R. | 220 | O. R. | 225 | O. R. | 230 | O. R. | - | - |
| | | Unit price, € | | | | | | | | | | |

Prod. group 599

DRION

Triangular flat hand engineer's file

Managarar national anglitor and

Application:For manual material removal with steel materials.

| Form | Tria | angle | Tria | ngle | Tria | ngle | Tria | ngle | Tria | ngle | | |
|------------------------|---------------|-------|-------|-------|-------|-------------|-------|-------|--------|-------|-------|--|
| File blade length (mm) | 1 | 00 | 1 | 50 | 2 | 00 | 2 | 50 | 3 | 00 | | |
| Width (mm) | 8 | 3.7 | 12 | 2.0 | 15 | 5.0 | 18 | 3.0 | 2 | 1.0 | | |
| File cut | 5149 | 51493 | | 51493 | | 51493 51493 | | 3 | 51493 | | 51493 | |
| | ID no | ١. | ID no | | ID no | | ID no | | ID no. | | | |
| 1 | 110 | O. R. | 115 | O. R. | 120 | O. R. | 125 | O. R. | 130 | O. R. | | |
| 2 | 210 | O. R. | 215 | O. R. | 220 | O. R. | 225 | O. R. | 230 | O. R. | | |
| 3 | 310 | O. R. | 315 | O. R. | 320 | O. R. | 325 | O. R. | 330 | O. R. | | |
| | Unit price, € | | | | | | | | | | | |

Prod. group 599

<u>Orion</u>®

Square flat hand engineer's file

Square

| Form Square-cut Square-cut Square-cut Square-cut Square-cut Square-cu |
|--|
| File blade length (mm) 100 150 200 250 300 |
| Width (mm) 4.0 6.3 8.0 10.0 12.5 |
| File cut 51494 51494 51494 51494 |
| ID no. I |
| 1 110 O. R. 115 O. R. 120 O. R. 125 O. R. 130 O. R |
| 3 310 O. R. 315 O. R. 320 O. R. 325 O. R. 330 O. R. |

Prod. group 599

DRION

Round flat hand engineer's file

Application:

For manual material removal with steel materials.

| Form | Ro | und | Ro | und | Ro | und | Ro | und | Rou | und | | | | |
|------------------------|-------|--------|-----|--------|--------|---------|-------|-------|--------|-------|--------|--|--------|--|
| File blade length (mm) | 1 | 00 | 1: | 50 | 2 | 00 | 2 | 50 | 30 | 00 | | | | |
| Thickness (mm) | | 4 | 6 | .3 | 7 | .1 | 9 | .2 | 12 | 2.5 | | | | |
| File cut | 5149 | 51495 | | 5 | 51495 | | 51495 | | 51495 | | | | | |
| | ID no | ID no. | | ID no. | | D no. | | | ID no. | | ID no. | | ID no. | |
| 1 | 110 | O. R. | 115 | O. R. | 120 | O. R. | 125 | O. R. | 130 | O. R. | | | | |
| 2 | 210 | O. R. | 215 | O. R. | 220 | O. R. | 225 | O. R. | 230 | O. R. | | | | |
| 3 | 310 | O. R. | 315 | O. R. | 320 | O. R. | 325 | O. R. | 330 | O. R. | | | | |
| | | | | | Unit n | rice. € | | | | | | | | |

Prod. group 599

215 O. R. 220 O. R. 225 O. R. 230 O. R.

DICK File and rasp sets

Application:

For general and rough filing work on steel, iron and non-ferrous metals in industry, skilled trades and hobby use.

Execution:

- Ident. No. 002: Cut 2, shapes: flat blunt-ended, half-round, round, triangular, square, with beech
- Ident. No. 010: Cut 1, shapes: flat blunt-ended, half-round, round, with plastic handle.
- Ident. No. 020: Cut 2, shapes: flat blunt-ended, half-round, round, triangular, square, with plastic

scope of supply and services:

Ident. No. 002: 1 x flat blunt-ended. half-round. round, triangular and square flat hand engineer's file with beech handle, in robust textile tool roll

Ident. No. 010: 1 x flat blunt-ended, half-round and round flat hand engineer's file, with plastic handle, in plastic pouch

Ident. No. 020: 1 x flat blunt-ended, half-round, round, triangular and square flat hand engineer's file, with plastic handle, in plastic pouch



Ident, No. 010



Ident. No. 020

| File blade length (mm) | | 200 | 250 | 200 |
|--|----------------------------|---------------------|---------------------|---------------------|
| File cut | | 2 | 1 | 2 |
| Material of the grip han | dle | Beechwood | Plastic | Plastic |
| Number of pieces in assortment/set (PCS) | | 5 | 3 | 5 |
| 51507 | ldent. No. Set price, € | 002 O. R. | 010 O. R. | 020 O. R. |

Prod. group 6AD

DICK File and rasp sets

Application:

For general and rough filing and rasping work on steel, iron and non-ferrous metals in industry, skilled trades and hobby use.

Execution:

- Ident. No. 002: Cut 2, shapes: flat blunt-ended, half-round, triangular, round, half-round rasp with beech handle
- Ident. No. 005: Cut 2, shapes: flat blunt-ended, half-round, triangular, round, half-round rasp, with plastic handle.

scope of supply and services:

Ident. No. 002: 1 x flat blunt-ended, half-round. triangular, round flat hand engineer's file, half-round rasp, with beech handle, in robust textile tool roll

Ident. No. 005: 1 x flat blunt-ended, half-round, triangular, round flat hand engineer's file, half-round rasp, with plastic handle, in plastic pouch

Technical Data:

- File blade length: 200 mm
- File cut: 2
- Number of pieces in assortment/set: 5

| Material of the grip handle | | Beechwood | Plastic |
|-----------------------------|----------------------------|---------------------|---------------------|
| 51508 | Ident. No. Set price, € | 002 O. R. | 005 O. R. |
| Dood on AD | • | | |





Ident. No. 002

Universal file DICK

Application:

For rough and fine manual material removal on all materials.

Exec

- Rough face for preliminary filing, when removing particularly large amounts of metal

| cution: | | | With sp |
|---------|--|--|---------------------------|
| cution: | | | (also st |
| | | | (4130 31 |

| | of surfaces | ıırıg |
|---|------------------------|-------|
| ĺ | File blade length (mm) | |

| Advantag | e: |
|-------------|----|
| ■ Ideal for | |

- Ideal for universal use due to two different flat faces
- pecial cut designed for cast iron, steel stainless steel), non-ferrous metals and soft metals, plastics and wood



| File blade length (mm) | | 200 | 250 |
|------------------------|---------------|-------|-------|
| Width (mm) | | 20.0 | 25.0 |
| Thickness (mm) | | 5.0 | 6.3 |
| 51470 | ldent. No. | 200 | 250 |
| 51470 | Unit price, € | O. R. | O. R. |

Prod. group 6AD

DICK Covered files and bodywork files

Application:

Ident. No. 130-135: For manual material removal on light and soft metals (aluminium, lead, tin), synthetic resin, wood, leather, marble and horn.

Ident. No. 230-235: For manual material removal on steel with a strength of less than 800 N/mm², steel casting, chilled casting, copper, brass and bronze.

Execution:

- Made of chrome-alloy steel
- Flat blunt-ended
- Both faces with radial toothing

Technical Data:

■ Thickness: 5.0 mm



Flat hand engineer's files



| File blade length (mm) | | 300 | 350 | 300 | 350 |
|------------------------|---------------|-------|-------|-------|-------|
| File cut | | 1 | 1 | 2 | 2 |
| Width (mm) | | 30.0 | 35.0 | 30.0 | 35.0 |
| 51550 | Ident. No. | 130 | 135 | 230 | 235 |
| 51550 | Unit price, € | O. R. | O. R. | O. R. | O. R. |

Prod. group 6AD

| | Accessories for | | 51550 135 | 51550 235 |
|-------|-------------------|-----------------------------|--------------|--------------|
| 51551 | Adjustable holder | Ident. No. Unit price, € | 035 O. R. | 035 O. R. |

Hardwood file handles

Execution:

- No. 51580: With embedded clamp
- No. 51582:
- With pressed-in steel tube clamp
- Especially powerful version

Technical Data:

- Material: HardwoodColour: Brown

| Length (mm) | | 80 | 90 | 100 | 110 | | |
|-------------|---------------|--------|--------|--------|--------|--|--|
| Suitable fo | r file length | 100 mm | 125 mm | 150 mm | 200 mm | | |
| 51580 | ldent. No. | 080 | 090 | 100 | 110 | | |
| 31360 | Unit price, € | O. R. | 0. R. | 0. R. | O. R. | | |
| 51582 | Ident. No. | 080 | 090 | 100 | 110 | | |
| 31362 | Unit price, € | O. R. | 0. R. | 0. R. | O. R. | | |
| | | | | | | | |
| Length (mr | n) | 120 | 130 | 140 | 150 | | |
| Suitable fo | r file length | 250 mm | 300 mm | 350 mm | 400 mm | | |
| 51580 | Ident. No. | 120 | 130 | 140 | 150 | | |
| 31360 | Unit price, € | O. R. | 0. R. | 0. R. | O. R. | | |
| E1500 | ldent. No. | 120 | 130 | 140 | 150 | | |
| 51582 | Unit price, € | O. R. | O. R. | 0. R. | O. R. | | |
| | | | | | | | |
| Langth (mm) | | 160 | 60 | | | | |

| Length (mr | n) | 160 | 60 |
|--------------------------------|---------------|---------------------|---------------------|
| Suitable fo | r file length | 400 mm | 100 mm |
| 51580 Ident. No. Unit price, € | | 160 O. R. | - |
| 51582 Ident. No. Unit price, € | | 160 O. R. | 060 O. R. |

Prod. group 527



No. 51580



No. 51582

Tool handle

Swiss patent, made of plastic, with a soft core insert

Execution:

- Swiss patent
- Made of plastic, with soft core insert

Advantage:

■ The handle can be inserted cold. It has a firm seating and can be repeatedly used



■ Material: Plastic



Ident. No. 290-330

| Length (mn | n) | 90 | 100 | 110 | 120 | 130 | 90 | 100 | 110 |
|--------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Suitable for | r file length | 125 mm | 150 mm | 200 mm | 250 mm | 300 mm | 125 mm | 150 mm | 200 mm |
| Colour | | Green | Green | Green | Green | Green | Blue | Blue | Blue |
| 51586 | Ident. No. | 090 | 100 | 110 | 120 | 130 | 190 | 200 | 210 |
| 3 1360 | Unit price, € | O. R. | 0. R. | O. R. | O. R. | 0. R. | 0. R. | O. R. | O. R. |
| Length (mn | n) | 120 | 130 | 90 | 100 | 110 | 120 | 130 | 90 |
| | | | | | 100 | | | | |
| Suitable for | r file length | 250 mm | 300 mm | 125 mm | 150 mm | 200 mm | 250 mm | 300 mm | 125 mm |
| Colour | | Blue | Blue | Red | Red | Red | Red | Red | Black |
| E1E04 | Ident. No. | 220 | 230 | 290 | 300 | 310 | 320 | 330 | 490 |
| 51586 | Unit price, € | O. R. |

| | Length (mm) Suitable for file length Colour | | 100 | 110 | 120 | 130 |
|--|---|---------------|--------|--------|--------|--------|
| | | | 150 mm | 200 mm | 250 mm | 300 mm |
| | | | Black | Black | Black | Black |
| | 51586 | Ident. No. | 500 | 510 | 520 | 530 |
| | 51500 | Unit price, € | O. R. | O. R. | O. R. | O. R. |

Prod. group 527

File handle

made of plastic

Execution:

■ Made of plastic

Technical Data:

- Material: PlasticColour: Red

| | Length (mm) | | 90 | 105 | 120 |
|--------------------------|-------------|---------------|------------|------------|-------|
| Suitable for file length | | 125 mm | 150-200 mm | 250-300 mm | |
| E1507 | | Ident. No. | 010 | 020 | 030 |
| | 51587 | Unit price, € | O. R. | O. R. | O. R. |





Precision needle file, flat-pointed

With round handle

Application:

No. 51403: For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

Execution:

■ No. 51403: Sharp tips and edges

Technical Data:

■ Form: Equalling needle

| | Length (mm) | File cut | File blade length (mm) | | |
|-------|-------------|----------|------------------------|-----------------------------|---------------------|
| 51402 | 160 | 00 | 80 | ldent. No. Unit price, € | 001 O. R. |
| 51402 | 160 | 1 | 80 | ldent. No. Unit price, € | 101 O. R. |
| 51402 | 160 | 2 | 80 | ldent. No. Unit price, € | 201 O. R. |
| 51402 | 160 | 3 | 80 | ldent. No. Unit price, € | 301 O. R. |
| 51402 | 160 | 4 | 80 | ldent. No. Unit price, € | 401 O. R. |
| 51403 | 200 | 1 | 100 | ldent. No. Unit price, € | 101 O. R. |
| 51403 | 200 | 2 | 100 | ldent. No. Unit price, € | 201 O. R. |
| 51403 | 200 | 3 | 100 | ldent. No. Unit price, € | 301 O. R. |





DICK Precision needle file, half-round

With round handle

Application:

No. 51403: For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

Execution:

■ No. 51403: Sharp tips and edges

Technical Data:

■ Form: Half-round

| | Length (mm) | File cut | File blade length (mm) | | |
|-------|-------------|----------|------------------------|-----------------------------|---------------------|
| 51402 | 160 | 00 | 80 | ldent. No. Unit price, € | 002 O. R. |
| 51402 | 160 | 1 | 80 | ldent. No. Unit price, € | 102 O. R. |
| 51402 | 160 | 2 | 80 | ldent. No. Unit price, € | 202 O. R. |
| 51402 | 160 | 3 | 80 | ldent. No. Unit price, € | 302 O. R. |
| 51402 | 160 | 4 | 80 | ldent. No. Unit price, € | 402 O. R. |
| 51403 | 200 | 00 | 100 | ldent. No. Unit price, € | 002 O. R. |
| 51403 | 200 | 1 | 100 | ldent. No. Unit price, € | 102 O. R. |
| 51403 | 200 | 2 | 100 | ldent. No. Unit price, € | 202 O. R. |
| 51403 | 200 | 3 | 100 | ldent. No. Unit price, € | 302 O. R. |
| 51403 | 200 | 4 | 100 | ldent. No. Unit price, € | 402 O. R. |

Prod. group 6AE



Precision needle file, knife-edge

With round handle

Application:

No. 51403: For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

Execution:

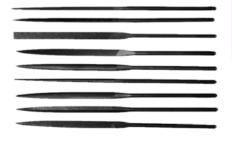
■ No. 51403: Sharp tips and edges

Technical Data:

■ Form: Knife shape

| | Length (mm) | File cut | File blade length (mm) | | |
|-------|-------------|----------|------------------------|-----------------------------|---------------------|
| 51402 | 160 | 1 | 80 | Ident. No. Unit price, € | 104 O. R. |
| 51402 | 160 | 2 | 80 | Ident. No. Unit price, € | 204 O. R. |
| 51402 | 160 | 3 | 80 | Ident. No. Unit price, € | 304 O. R. |
| 51403 | 200 | 1 | 100 | Ident. No. Unit price, € | 104 O. R. |
| 51403 | 200 | 2 | 100 | Ident. No. Unit price, € | 204 O. R. |
| 51403 | 200 | 3 | 100 | Ident. No. Unit price, € | 304 O. R. |









Precision needle file, barrette

With round handle

Application:

No. 51403: For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

Execution:

■ No. 51403: Sharp tips and edges

Technical Data:

■ Form: Barett

| | Length (mm) | File cut | File blade length (mm) | | |
|-------|-------------|----------|------------------------|-----------------------------|---------------------|
| 51402 | 160 | 00 | 80 | ldent. No. Unit price, € | 005 O. R. |
| 51402 | 160 | 1 | 80 | Ident. No. Unit price, € | 105 O. R. |
| 51402 | 160 | 2 | 80 | Ident. No. Unit price, € | 205 O. R. |
| 51402 | 160 | 3 | 80 | Ident. No. Unit price, € | 305 O. R. |
| 51402 | 160 | 4 | 80 | ldent. No. Unit price, € | 405 O. R. |
| 51403 | 200 | 00 | 100 | Ident. No. Unit price, € | 005 O. R. |
| 51403 | 200 | 1 | 100 | ldent. No. Unit price, € | 105 O. R. |
| 51403 | 200 | 2 | 100 | ldent. No. Unit price, € | 205 O. R. |
| 51403 | 200 | 3 | 100 | ldent. No. Unit price, € | 305 O. R. |
| 51403 | 200 | 4 | 100 | ldent. No. Unit price, € | 405 O. R. |





Precision needle file, triangular

With round handle

Application:

No. 51403: For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

Execution:

■ No. 51403: Sharp tips and edges

Technical Data:

■ Form: Triangle

| | Length (mm) | File cut | File blade length (mm) | | |
|-------|-------------|----------|------------------------|-----------------------------|---------------------|
| 51402 | 160 | 00 | 80 | ldent. No. Unit price, € | 006 O. R. |
| 51402 | 160 | 1 | 80 | ldent. No. Unit price, € | 106 O. R. |
| 51402 | 160 | 2 | 80 | ldent. No. Unit price, € | 206 O. R. |
| 51402 | 160 | 3 | 80 | ldent. No. Unit price, € | 306 O. R. |
| 51402 | 160 | 4 | 80 | ldent. No. Unit price, € | 406 O. R. |
| 51403 | 200 | 00 | 100 | Ident. No. Unit price, € | 006 O. R. |
| 51403 | 200 | 1 | 100 | Ident. No. Unit price, € | 106 O. R. |
| 51403 | 200 | 2 | 100 | Ident. No. Unit price, € | 206 O. R. |
| 51403 | 200 | 3 | 100 | Ident. No. Unit price, € | 306 O. R. |
| 51403 | 200 | 4 | 100 | Ident. No. Unit price, € | 406 O. R. |





Precision needle file, square

With round handle

Application:

No. 51403: For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

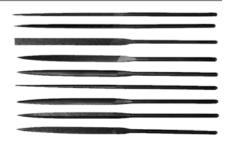
Execution:

■ No. 51403: Sharp tips and edges

Technical Data:

■ Form: Square-cut

| | Length (mm) | File cut | File blade length (mm) | | |
|-------|-------------|----------|------------------------|-----------------------------|---------------------|
| 51402 | 160 | 00 | 80 | ldent. No. Unit price, € | 007 O. R. |
| 51402 | 160 | 1 | 80 | ldent. No. Unit price, € | 107 O. R. |
| 51402 | 160 | 2 | 80 | ldent. No. Unit price, € | 207 O. R. |
| 51402 | 160 | 3 | 80 | ldent. No. Unit price, € | 307 O. R. |





| | Length (mm) | File cut | File blade length (mm) | | |
|-------|-------------|----------|------------------------|-----------------------------|---------------------|
| 51402 | 160 | 4 | 80 | ldent. No. Unit price, € | 407 O. R. |
| 51403 | 200 | 00 | 100 | Ident. No. Unit price, € | 007 O. R. |
| 51403 | 200 | 1 | 100 | ldent. No. Unit price, € | 107 O. R. |
| 51403 | 200 | 2 | 100 | ldent. No. Unit price, € | 207 O. R. |
| 51403 | 200 | 3 | 100 | ldent. No. Unit price, € | 307 O. R. |
| 51403 | 200 | 4 | 100 | ldent. No. Unit price, € | 407 O. R. |

Prod. group 6AE



Precision needle file, round

With round handle

Application:

No. 51403: For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

Execution:

■ No. 51403: Sharp tips and edges

Technical Data:

■ Form: Round

| | Length (mm) | File cut | File blade length (mm) | | |
|-------|-------------|----------|------------------------|-----------------------------|---------------------|
| 51402 | 160 | 00 | 80 | ldent. No. Unit price, € | 008 O. R. |
| 51402 | 160 | 1 | 80 | ldent. No. Unit price, € | 108 O. R. |
| 51402 | 160 | 2 | 80 | Ident. No. Unit price, € | 208 O. R. |
| 51402 | 160 | 3 | 80 | ldent. No. Unit price, € | 308 O. R. |
| 51402 | 160 | 4 | 80 | ldent. No. Unit price, € | 408 O. R. |
| 51403 | 200 | 00 | 100 | ldent. No. Unit price, € | 008 O. R. |
| 51403 | 200 | 1 | 100 | ldent. No. Unit price, € | 108 O. R. |
| 51403 | 200 | 2 | 100 | ldent. No. Unit price, € | 208 O. R. |
| 51403 | 200 | 3 | 100 | ldent. No. Unit price, € | 308 O. R. |
| 51403 | 200 | 4 | 100 | Ident. No. Unit price, € | 408 O. R. |

Prod. group 6AE



Precision needle file, flat

With round handle

Application:

No. 51403: For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

Execution:

■ No. 51403: Sharp tips and edges

Technical Data:

■ Form: Equalling

| | Length (mm) | File cut | File blade length (mm) | | |
|-------|-------------|----------|------------------------|-----------------------------|---------------------|
| 51402 | 160 | 00 | 80 | Ident. No. Unit price, € | 009 O. R. |
| 51402 | 160 | 1 | 80 | ldent. No. Unit price, € | 109 O. R. |
| 51402 | 160 | 2 | 80 | ldent. No. Unit price, € | 209 O. R. |
| 51402 | 160 | 3 | 80 | ldent. No. Unit price, € | 309 O. R. |
| 51402 | 160 | 4 | 80 | ldent. No. Unit price, € | 409 O. R. |
| 51403 | 200 | 00 | 100 | ldent. No. Unit price, € | 009 O. R. |
| 51403 | 200 | 1 | 100 | ldent. No. Unit price, € | 109 O. R. |
| 51403 | 200 | 2 | 100 | ldent. No. Unit price, € | 209 O. R. |
| 51403 | 200 | 3 | 100 | ldent. No. Unit price, € | 309 O. R. |
| 51403 | 200 | 4 | 100 | Ident. No. | 409 O R |

Prod. group 6AE







Precision needle file, lenticular crossing With round handle

Application:

No. 51403: For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

Execution:

■ No. 51403: Sharp tips and edges

Technical Data:

■ Form: Crossing shape

| | Length (mm) | File cut | File blade length (mm) | | |
|-------|-------------|----------|------------------------|-----------------------------|---------------------|
| 51402 | 160 | 1 | 80 | ldent. No. Unit price, € | 103 O. R. |
| 51402 | 160 | 2 | 80 | ldent. No. Unit price, € | 203 O. R. |
| 51402 | 160 | 3 | 80 | ldent. No. Unit price, € | 303 O. R. |
| 51403 | 200 | 1 | 100 | ldent. No. Unit price, € | 103 O. R. |
| 51403 | 200 | 2 | 100 | Ident. No. Unit price, € | 203 O. R. |
| 51403 | 200 | 3 | 100 | ldent. No. Unit price, € | 303 O. R. |



Prod. group 6AE



Precision need file, sword

With round handle

Application:

For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

Execution:

■ Sharp tips and edges

Technical Data:

■ Form: Blade shape

| | Length (mm) | File cut | File blade length (mm) | | |
|-------|-------------|----------|------------------------|-----------------------------|---------------------|
| 51402 | 160 | 1 | 80 | ldent. No. Unit price, € | 110 O. R. |
| 51402 | 160 | 3 | 80 | ldent. No. Unit price, € | 310 O. R. |

Prod. group 6AE



Precision needle files set in plastic pouch

With round handle

Application:

For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

Execution:

- In 12 different types
- Handle diameter 3.23 mm ± 0.1 mm and 2.92 mm ± 0.1 mm

scope of supply and services:

In plastic pouch

- Number of pieces in assortment/set: 12
- Form: Barett | Triangle | Equalling needle | Equalling | Half-round | Knife shape | Round | Blade shape | Square-cut | Crossing shape | Flat end with round shape | Flat tip with round shape
- File cut: 2

| Length (mm) | | 100 | 140 | 160 | 180 | 200 |
|------------------|--------------|-------|-------------|-------|-------|-------|
| File blade lengt | :h (mm) | 60 | 60 80 80 90 | | 100 | |
| 51405 | Ident. No. | 005 | 008 | 010 | 018 | 020 |
| 51405 | Set price, € | O. R. | O. R. | O. R. | 0. R. | O. R. |







Precision needle files set in plastic box

Technical Data:

■ File blade length: 80 mm

Application:

For precise work in tool manufacturing and precision engineering or in training shops, on steel, steel alloys and non-greasy soft metals.

Execution:

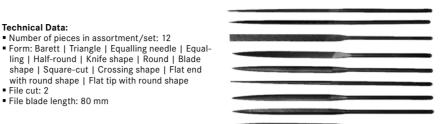
- In 12 different types
- Handle diameter 3.23 mm ± 0.1 mm and 2.92 mm

scope of supply and services:

In plastic box - for setting up at the work place for quick access

| Length (mm) | | 140 | 160 |
|-------------|--------------|-------|-------|
| 51406 | Ident. No. | 010 | 016 |
| 51406 | Set price, € | O. R. | O. R. |

Prod. group 6AE



DICK Precision flat file, normal blade

For precise work in tool manufacturing, precision engineering, the jewellery industry or in training shops, for reworking and fine processing of pre-processed surfaces or to achieve fine and perfect surfaces.

• File is thinner towards the pointed end

Number of pieces in assortment/set: 12

ling | Half-round | Knife shape | Round | Blade

shape | Square-cut | Crossing shape | Flat end

with round shape | Flat tip with round shape

Technical Data:

■ Form: Normal

Execution:

■ 2 flat faces and 1 small face cut

| File blade le | ength (mm) | 100 | 125 | 150 | 200 | 250 | 300 | 100 | 125 |
|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|
| File cut | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| Width (mm) |) | 9.5 | 12.5 | 16.0 | 21.3 | 25.3 | 29.3 | 9.5 | 12.5 |
| Thickness (| (mm) | 2.5 | 3.2 | 4.0 | 4.8 | 6.3 | 7.8 | 2.5 | 3.2 |
| 54444 | Ident. No. | 110 | 112 | 115 | 120 | 125 | 130 | 210 | 212 |
| 51411 | Unit price, € | O. R. |
| | | | | | | | | | |
| File blade le | ength (mm) | 150 | 200 | 250 | 300 | 100 | 125 | 150 | 200 |
| File cut | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| Width (mm) |) | 16.0 | 21.3 | 25.3 | 29.3 | 9.5 | 12.5 | 16.0 | 21.3 |
| Thickness (| (mm) | 4.0 | 4.8 | 6.3 | 7.8 | 2.5 | 3.2 | 4.0 | 4.8 |
| E1411 | Ident. No. | 215 | 220 | 225 | 230 | 310 | 312 | 315 | 320 |
| 51411 | Unit price, € | O. R. |
| File blade le | ength (mm) | 250 | 300 | 100 | 125 | 150 | 200 | 250 | 100 |
| File cut | engui (iiiii) | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 |
| Width (mm) |) | 25.3 | 29.3 | 9.5 | 12.5 | 16.0 | 21.3 | 25.3 | 9.5 |
| Thickness (| | 6.3 | 7.8 | 2.5 | 3.2 | 4.0 | 4.8 | 6.3 | 2.5 |
| THICKNESS (| | | | | | | | | |
| 51411 | ldent. No. | 325 | 330 | 410 | 412 | 415 | 420 | 425 | 510 |
| 01411 | Unit price, € | 0. R. | 0. R. | 0. R. | 0. R. | O. R. | 0. R. | 0. R. | 0. R. |

| File blade I | ength (mm) | 150 | 200 |
|--------------|---------------|-------|-------|
| File cut | | 5 | 5 |
| Width (mm |) | 16.0 | 21.3 |
| Thickness | (mm) | 4.0 | 4.8 |
| 51411 | Ident. No. | 515 | 520 |
| | Unit price, € | O. R. | O. R. |

Prod. group 6AE

DICK Precision half-round file, pointed

For precise work in tool manufacturing, precision engineering, the jewellery industry or in training shops, for reworking and fine processing of pre-processed surfaces or to achieve fine and perfect surfaces.

Execution:

Sharp tips and edges



| Form | | Half-round I Pointed I |
|--------------|---------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | | Normal | Normal | Normal | Narrow | Normal | Normal | Normal | Normal |
| File blade I | ength (mm) | 100 | 125 | 150 | 150 | 200 | 250 | 100 | 125 |
| File cut | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| Width (mm | 1) | 12.7 | 13.1 | 18.4 | 12.7 | 21.1 | 25.5 | 12.7 | 13.1 |
| Thickness | (mm) | 3.5 | 4.1 | 5.2 | 3.5 | 6.3 | 7.5 | 3.5 | 4.1 |
| 51415 | Ident. No. | 110 | 112 | 115 | 150 | 120 | 125 | 210 | 212 |
| 51415 | Unit price, € | 0. R. | O. R. |

Precision files



| Form | | Half-round |
|--------------|---------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | Pointed |
| | | Normal | Narrow | Normal | Narrow | Normal | Normal | Normal | Normal |
| File blade I | length (mm) | 150 | 150 | 200 | 200 | 250 | 100 | 125 | 150 |
| File cut | | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| Width (mm | 1) | 18.4 | 12.7 | 21.1 | 15.2 | 25.5 | 12.7 | 13.1 | 18.4 |
| Thickness | (mm) | 5.2 | 3.5 | 6.3 | 4.8 | 7.5 | 3.5 | 4.1 | 5.2 |
| 51415 | Ident. No. | 215 | 250 | 220 | 260 | 225 | 310 | 312 | 315 |
| 51415 | Unit price, € | O. R. | O. R. | 0. R. | O. R. | 0. R. | 0. R. | O. R. | O. R. |

| Form | | Half-round | Half-round | Half-round | Half-round | Half-round | Half-round |
|--------------|---------------|------------|------------|------------|------------|------------|------------|
| | | Pointed | Pointed | Pointed | Pointed | Pointed | Pointed |
| | | Narrow | Normal | Normal | Normal | Normal | Normal |
| File blade I | ength (mm) | 150 | 200 | 250 | 100 | 150 | 200 |
| File cut | | 3 | 3 | 3 | 4 | 4 | 4 |
| Width (mm |) | 12.7 | 21.1 | 25.5 | 12.7 | 18.4 | 21.1 |
| Thickness | (mm) | 3.5 | 6.3 | 7.5 | 3.5 | 5.2 | 6.3 |
| 51415 | Ident. No. | 350 | 320 | 325 | 410 | 415 | 420 |
| 51415 | Unit price, € | O. R. | 0. R. |

Prod. group 6AE

DICK Precision round file

Application:

For precise work in tool manufacturing, precision engineering, the jewellery industry or in training shops, for reworking and fine processing of pre-processed surfaces or to achieve fine and perfect surfaces.

Execution:

Sharp tips and edges



Technical Data:

■ Form: Round

| File blade le | ength (mm) | 100 | 125 | 150 | 200 | 250 | 100 | 125 | 150 | 200 | 250 | 100 | 125 | 150 | 200 | 250 |
|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| File cut | | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| Ø (mm) | | 3.85 | 4.8 | 5.8 | 7.8 | 9.4 | 3.85 | 4.8 | 5.8 | 7.8 | 9.4 | 3.85 | 4.8 | 5.8 | 7.8 | 9.4 |
| 51418 | Ident. No. | 110 | 112 | 115 | 120 | 125 | 210 | 212 | 215 | 220 | 225 | 310 | 312 | 315 | 320 | 325 |
| 51418 | Unit price, € | O. R. | O. R. | 0. R. | 0. R. | 0. R. | 0. R. | O. R. | 0. R. | 0. R. | O. R. | 0. R. |

Prod. group 6AE

DICK Precision knife-edge file, sharp edges

Application:

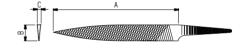
For precise work in tool manufacturing, precision engineering, the jewellery industry or in training shops, for reworking and fine processing of pre-processed surfaces or to achieve fine and perfect surfaces.

Execution:

■ Sharp tips and edges

Technical Data:

■ Form: Knife shape



| File blade length (mn | n) | 150 | 200 | 150 | 200 | 150 | 200 |
|-----------------------|---------------|-------|-------|-------|-------|-------|-------|
| File cut | | 1 | 1 | 2 | 2 | 3 | 3 |
| Width (mm) | | 17.9 | 22.0 | 17.9 | 22.0 | 17.9 | 22.0 |
| Thickness (mm) | | 3.5 | 4.2 | 3.5 | 4.2 | 3.5 | 4.2 |
| 51419 | Ident. No. | 115 | 120 | 215 | 220 | 315 | 320 |
| 51419 | Unit price, € | O. R. |

Prod. group 6AE

DICK Key file set

Application:

For precise manual material removal with all metal

scope of supply and services:

6-piece, in plastic pouch, with handle, in the following shapes: flat blunt-ended, flat pointed,

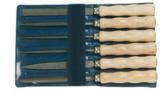
| 51452 | ldent. No. Set price, € | 010 O. R. |
|-------|----------------------------|---------------------|
| | | |

Prod. group 6AD

half-round, triangular, square and round

Technical Data:

- File blade length: 100 mm
- Material of the grip handle: Wood
- Number of pieces in assortment/set: 6



orion^o Key file set

Application:

For precise manual material removal with all metal materials.

scope of supply and services:

6-piece, in sheet metal box, with handle, in the following shapes: flat blunt-ended, flat pointed,

| 51451 | ldent. No. | 010 |
|-------|--------------|-------|
| 51451 | Set price, € | 0. R. |

Prod. group 599

half-round, triangular, square and round

- File blade length: 100 mm
- File cut: 2
- Number of pieces in assortment/set: 6





DICK Precision riffling file sets

Application:

For machining of hard-to-reach surfaces and contours on steel, plastic, copper, etc.

■ Ident. No. 200: For tool manufacturers

scope of supply and services:

Complete set, packaged in box

Execution:

■ Ident. No. 150: For engravers

| Number of pieces in assortmer | nt/set (PCS) | 6 | 8 |
|-------------------------------|--------------|-------|---------|
| File cut | | 2 | 1 |
| Length (mm) | | 150 | 200 |
| 51457 | ldent. No. | 150 | 200 |
| 51457 | Set price, € | O. R. | (O. R.) |







Ident, No. 200

ADDIN RESERVED TO SERVED T

Thread files

Application:

For reworking of inner and outer threads.

Execution:

Combined

 No. 51458: For metric ISO coarse-pitch thread DIN 13

■ No. 51459: For Whitworth thread

Technical Data:

■ Length: 230 mm

| Composition of set | 5145 | 8 | 51459 | |
|--|--------|--------|---------|-------|
| · | ID no. | | ID no. | |
| 0.8 / 1 / 1.25 / 1.5 / 1.75 / 2 / 2.5 / 3 mm | 010 | O. R. | - | - |
| 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 inch | - | - | 010 | O. R. |
| | | Unit p | rice, € | |

Prod. group 527



Diamond needle file, flat blunt-ended

Galvanic bond

Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

Execution:

62300...

- Fine grain size D 91 for finishing
- Medium grain size D 126 for universal use

■ Rough grain size D 181 for roughing

Technical Data:

- Form: EquallingWidth: 5.5 mm
- Thickness: 1.6 mm
- Length: 140 mm
- Lining length: 70 mm
- Shaft diameter: 3 mm

| Grain size (µm) | | |
|-----------------|---------------|-------|
| 91 | Ident. No. | 010 |
| 91 | Unit price, € | O. R. |
| 10/ | Ident. No. | 110 |
| 126 | Unit price, € | O. R. |
| 101 | Ident. No. | 210 |
| 181 | Unit price, € | O. R. |

62300... Prod. group 6AC



Diamond needle file, flat-pointed

Galvanic bond

Application

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

Execution

- Fine grain size D 91 for finishing
- Medium grain size D 126 for universal use
- Rough grain size D 181 for roughing

- Form: Equalling needleWidth: 5.5 mm
- Thickness: 1.6 mm
- Length: 140 mmLining length: 70 mm
- Shaft diameter: 3 mm

| = | | | |
|-------|-----------------|---------------|-------|
| | Grain size (µm) | | |
| 42200 | 0.1 | Ident. No. | 020 |
| 62300 | 91 | Unit price, € | O. R. |





Diamond files



| | Grain size (µm) | | |
|-------|-----------------|---------------|-------|
| 62300 | 104 | Ident. No. | 120 |
| 62300 | 126 | Unit price, € | O. R. |
| 42200 | 10.1 | Ident. No. | 220 |
| 62300 | 181 | Unit price, € | O. R. |

Prod. group 6AC



Diamond needle file, triangular

Galvanic bond

Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

Execution:

■ Fine grain size D 91 for finishing

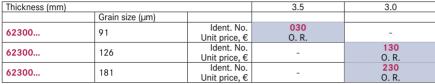
- Medium grain size D 126 for universal use
- Rough grain size D 181 for roughing

Technical Data:

Form: TriangleWidth: 3.5 mm

- Length: 140 mm
- Lining length: 70 mm
 Shaft diameter: 3 mm

| 3.5 | 3.0 |
|------|-----|
| | |
| | |



Prod. group 6AC



Diamond needle file, square

Galvanic bond

Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

Execution:

- Fine grain size D 91 for finishing
- Medium grain size D 126 for universal use

■ Rough grain size D 181 for roughing

Technical Data:

- Form: Square-cut
- Width: 2.6 mm
- Thickness: 2.6 mm
 Length: 140 mm
- Lining length: 70 mm
- Shaft diameter: 3 mm



| | Grain size (µm) | | |
|-------|-----------------|---------------|-------|
| 62300 | 91 | Ident. No. | 040 |
| 62300 | 91 | Unit price, € | O. R. |
| 62300 | 126 | Ident. No. | 140 |
| 62300 | 120 | Unit price, € | O. R. |
| 62300 | 181 | Ident. No. | 240 |
| 62300 | 101 | Unit price, € | O. R. |

Prod. group 6AC



Diamond needle file, half-round

Galvanic bond

Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

Execution:

- Fine grain size D 91 for finishing
- Medium grain size D 126 for universal use

| ■ Rough grain size D | 181 for roughing |
|----------------------|------------------|
|----------------------|------------------|

Technical Data:

- Form: Half-round
- Width: 5.5 mm
- Thickness: 1.6 mm
- Length: 140 mm
- Lining length: 70 mm
- Shaft diameter: 3 mm

| | Grain size (µm) | | |
|-------|-----------------|---------------|-------|
| 62300 | 91 | Ident. No. | 050 |
| 02300 | 91 | Unit price, € | O. R. |
| 62300 | 126 | Ident. No. | 150 |
| 02300 | 120 | Unit price, € | O. R. |
| 62300 | 181 | Ident. No. | 250 |
| 02300 | 101 | Unit price, € | O. R. |

Prod. group 6AC





Diamond needle file, round

Galvanic bond

Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

Execution:

■ Fine grain size D 91 for finishing

- Medium grain size D 126 for universal use
- Rough grain size D 181 for roughing

Technical Data:

- Form: Round
- Width: 3.2 mm ■ Length: 140 mm
- Lining length: 70 mmShaft diameter: 3 mm

| Thickness (mm) | | | 3.2 | 3.0 |
|----------------|-----------------|---------------|-------|-------|
| | Grain size (µm) | | | |
| 62300 | 91 | Ident. No. | 060 | |
| | 91 | Unit price, € | O. R. | - |
| 62300 | 126 | Ident. No. | | 160 |
| 02300 | 120 | Unit price, € | - | O. R. |
| 62300 | 181 | Ident. No. | | 260 |
| | 101 | Unit price, € | - | O. R. |
| | | | | |





Prod. group 6AC



Diamond needle file, knife-edge

Galvanic bond

Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

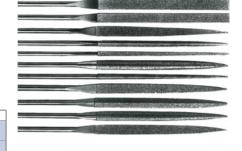
Execution:

- Fine grain size D 91 for finishing
- Medium grain size D 126 for universal use

■ Rough grain size D 181 for roughing

Technical Data:

- Form: Knife shape
- Width: 5.0 mm
- Thickness: 1.8 mm
- Length: 140 mm
- Lining length: 70 mm
- Shaft diameter: 3 mm



| | Grain size (µm) | | |
|-------|-----------------|---------------|-------|
| 62300 | 91 | Ident. No. | 070 |
| 02300 | 91 | Unit price, € | O. R. |
| 62300 | 126 | Ident. No. | 170 |
| 02300 | 120 | Unit price, € | O. R. |
| 62300 | 101 | Ident. No. | 270 |
| 02300 | 181 | Unit price, € | O. R. |
| D | | | |

Prod. group 6AC



Diamond needle file, sword

Galvanic bond

Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

Execution:

- Fine grain size D 91 for finishing
- Medium grain size D 126 for universal use

■ Rough grain size D 181 for roughing

- Form: Blade shape
- Width: 5.0 mm
- Thickness: 2.4 mm
- Length: 140 mm Lining length: 70 mm
- Shaft diameter: 3 mm

| | Grain size (µm) | | |
|----------|-----------------|---------------|-------|
| 62300 | 91 | Ident. No. | 080 |
| 02300 | 91 | Unit price, € | O. R. |
| 62300 | 10/ | Ident. No. | 180 |
| | 126 | Unit price, € | O. R. |
| 62300 | 181 | Ident. No. | 280 |
| | 181 | Unit price, € | O. R. |
| Dead (AC | • | • | |









Diamond needle file, barrette

Galvanic bond

Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

Execution:

- Fine grain size D 91 for finishing
- Medium grain size D 126 for universal use

Rough grain size D 181 for roughing

Technical Data:

- Form: Barett
- Width: 5.0 mm
- Thickness: 2.0 mm
- Length: 140 mm
- Lining length: 70 mm
- Shaft diameter: 3 mm



| | Oralli Size (pitt) | | |
|----------------|--------------------|---------------|-------|
| 62300 | 91 | Ident. No. | 090 |
| 02300 | 91 | Unit price, € | O. R. |
| 62300 | 126 | Ident. No. | 190 |
| 02300 | | Unit price, € | O. R. |
| 62300 | 181 | Ident. No. | 290 |
| 02300 | 101 | Unit price, € | O. R. |
| Prod group 6AC | | | |



Diamond needle files set, 5-pieces in case

Grain size (µm)

126

181

Galvanic bond

Technical Data:

- Number of pieces in assortment/set: 5
 Length: 140 mm

62300...

62300...

- Lining length: 70 mm
- Shaft diameter: 3 mm

| Ident. No. | 305 |
|--------------|-------|
| Set price, € | O. R. |
| Ident. No. | 405 |
| Set price, € | O. R. |
| Ident. No. | 205 |
| Set price, € | O. R. |

62300... 91 Prod. group 6AC



5-part set



Diamond needle files set, 11-pieces in case

Galvanic bond

Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

Execution:

■ Types included: flat blunt-ended, standard and round edges, triangular, square, half-round, round, flat-pointed, knife-edge, sword, lenticular crossing

- Fine grain size D 91 for finishing
- Medium grain size D 126 for universal use
- Rough grain size D 181 for roughing

Technical Data:

- Number of pieces in assortment/set: 11
- Length: 140 mm
- Lining length: 70 mm
- Shaft diameter: 3 mm



| | Grain size (µm) | | |
|-------|-----------------|--------------|-------|
| 62300 | 126 | ldent. No. | 311 |
| 02300 | 120 | Set price, € | O. R. |
| 62300 | 181 | Ident. No. | 411 |
| 02300 | 101 | Set price, € | O. R. |
| 62300 | 91 | Ident. No. | 211 |
| 02300 | 91 | Set price, € | O. R. |

Prod. group 6AC



Diamond handy file

Galvanic bond

Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

Advantage:

With forged shaft for use without file handle

Technical Data:

- Length: 215 mm
- Lining length: 100 mm



| Form | | | Equalling | Triangle | Square-cut | Half-round | Round | Half-round |
|----------------|-----------------|---------------|-----------|----------|------------|------------|-------|------------|
| Width (mm) | | | 10.3 | 10.0 | 5.5 | 12.5 | 6.7 | 12.5 |
| Thickness (mm) | | | 2.8 | 10.0 | 5.5 | 3.8 | 6.7 | 3.5 |
| | Grain size (µm) | | | | | | | |
| 62400 | 126 | Ident. No. | 110 | 120 | 130 | 140 | 150 | |
| 02400 | 120 | Unit price, € | O. R. | O. R. | O. R. | O. R. | O. R. | _ |
| 62400 | 181 | ldent. No. | 210 | 220 | 230 | | 250 | 240 |
| 02400 | 101 | Unit price € | O R | O R | O R | _ | O R | O R |

Prod. group 6AC



Diamond handy files set in case

Galvanic bond

Application:

For machining of punching and drawing tools, blanking punches and other workpieces made of hardened steel, cemented carbide, ceramic, porcelain, glass or plastic in tool manufacturing and mechanical engineering.

Execution:

■ Types included: flat blunt-ended, triangular, square, half-round and round

Advantage:

• With forged shaft for use without file handle

scope of supply and services:

One file each: flat blunt-ended, triangular, square, half-round and round

Technical Data:

- Number of pieces in assortment/set: 5
- Length: 215 mm

| | - Lining length: 100 mm | | | | | |
|-------|-------------------------|--------------|-------|--|--|--|
| | Grain size (µm) | | | | | |
| 62400 | 126 | Ident. No. | 300 | | | |
| 02400 | 120 | Set price, € | O. R. | | | |
| 62400 | 101 | Ident. No. | 310 | | | |
| 02400 | 181 | Set price, € | O. R. | | | |



Needle and diamond file handle

made of plastic

Application:

Prod. group 6AC

Ident. No. 010: For needle and diamond files, 140-200 mm long

Ident. No. 020: For needle and diamond files, 100-200 mm long.

Execution:

- With closed end
- With collet chuck

Technical Data:

Material: Plastic

Technical Data:

■ Length: 95 mm ■ Material: Plastic



| itica | |
|-------|--|
| | |
| | |

2.8-4.0 mm Min./max. clamping Ø 2.0-5.0 mm Length (mm) 80 Ident. No. 020 51408... Unit price, € O.R. O.R Prod. group 6AE

Ident No 020



Needle and diamond file handle

Made of plastic, with spring-action collet chuck and rotary control knob for clamping

2.0-3.1 mm

O. R

3.0-4.0 mm 020

Application:

For needle and diamond files, scrapers, reamers and countersinks.

Advantage:

• Fast, easy tool change with secure fastening

| rast, easy tool change with secure rasterning | | | | | | |
|---|----------|------------|--|--|--|--|
| Min./max. clamping Ø | | 1.1-2.1 mm | | | | |
| | Ident No | 010 | | | | |

51409... Unit price, € O. R. Prod. group 6AE





Rough grinding discs

Hard, for steel/cast metal

Application:

For deburring, chamfering, fettling and for preparatory and finishing work on weld seams.

Advantage:

- Hard version ideal for grinding edges
- High removal rate with long service life

Technical Data:

- Washer thickness: 7.0 mm
- Bore diameter: 22.23 mm
- Number of pieces per packet: 25
- Form: Cranked

| Washer Ø (mm) | | 115 | 125 |
|--------------------------------|-----------------------------|---------------------|---------------------|
| Max. rotation speed (U/min(rpi | m)) | 13285 | 12200 |
| 76100 | ldent. No. Unit price, € | 115 O. R. | 125 O. R. |



RHODIUS

RS2 PRO-LINE rough grinding discs

Medium-hard, type - A 30 P 8 BF 153, for steel / cast iron

Application:

For deburring, chamfering, fettling and for preparatory and finishing work on weld seams.

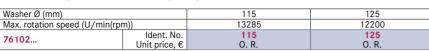
Good machining performance with cool grinding

Technical Data:

■ Washer thickness: 7.0 mm ■ Bore diameter: 22.23 mm

■ Number of pieces per packet: 25

■ Form: Cranked







Rough grinding discs

Hard, for steel/cast metal

Application:

For deburring, chamfering, fettling and for preparatory and finishing work on weld seams.

- Washer thickness: 7.0 mm
- Bore diameter: 22.23 mm
- Number of pieces per packet: 25
- Form: Cranked

Technical Data:

| Washer Ø (mm) | | 115 | 125 |
|-------------------------------|---------------|-------|-------|
| Max. rotation speed (U/min(rp | m)) | 13285 | 12200 |
| 74101 | Ident. No. | 215 | 225 |
| 76101 | Unit price, € | O. R. | O. R. |

Prod. group 766





RS 38 INOX PROLINE rough grinding discs

Hard, iron and sulphur free, type - A 30 P 8 BF 153

For deburring, chamfering, fettling and for preparatory and finishing work on weld seams with cold

Technical Data:

- Washer thickness: 7.0 mm ■ Bore diameter: 22.23 mm Number of pieces per packet: 25
- Form: Cranked

| Washer Ø (mm) | | 115 | 125 |
|----------------------------------|---------------|-------|-------|
| Max. rotation speed (U/min(rpm)) | | 13285 | 12200 |
| 76103 | Ident. No. | 115 | 125 |
| 76103 | Unit price, € | O. R. | O. R. |



Prod. group 6BB

RHODIUS TOPLINE •••

RS 24 TOPLINE rough grinding discs

180

8600

10

Medium-hard, type - A 30 P 8 BF 153, for aluminium / non-ferrous metals

For deburring, chamfering, fettling and for preparatory and finishing work on weld seams

Advantage: Due to the open structure, the disc does not clog even with greasy materials

Technical Data:

■ Washer thickness: 7.0 mm ■ Bore diameter: 22.23 mm

12200

25

030

O.R

- Form: Cranked





76104... Prod. group 6BB

Washer Ø (mm)



Max. rotation speed (U/min(rpm)

Number of pieces per packet (PCS)

Cutting discs

Ident. No.

Unit price, €

Very hard, extra thin, for steel

13285

25

020

For burr-free cutting of thin-walled pipes, sheet steel and profiles.

 Very hard cutting disc for extremely short cutting times

Technical Data:

■ Bore diameter: 22.23 mm

| Washer Ø | (mm) | | 115 | 115 | 125 | 125 | 180 | 230 |
|----------------------------------|--------------|-----------------------------|------------|--------------|---------------------|---------------------|------------|-------------------|
| Washer thickness (mm) | | | 1.0 | 1.5 | 1.0 | 1.5 | 1.5 | 1.9 |
| Max. rotation speed (U/min(rpm)) | | | 13285 | 13285 | 12200 | 12200 | 8600 | 6600 |
| Number of | pieces per p | packet (PCS) | 50 | 50 | 50 | 50 | 25 | 25 |
| | Form | | | | | | | |
| 76109 | Straight | Ident. No. Unit price. € | 115 O R | 116 O. R. | 125 O. R. | 126 O. R. | 180 O R | 230 O R |

Prod. group 792

1666







Cutting discs

Medium-hard, for steel

Application:

Suitable for a wide range of applications, such as for cutting pipes, sheet metal and steel sections.



Washer thickness: 3.0 mm
Bore diameter: 22.23 mm

| Washer Ø (mm) | | | 115 | 125 | 180 | 230 |
|----------------------------------|-----------------------------------|---------------|-------|-------|-------|-------|
| Max. rotation speed (U/min(rpm)) | | | 13285 | 12200 | 8600 | 6600 |
| Number of pi | Number of pieces per packet (PCS) | | 50 | 50 | 25 | 25 |
| | Form | | | | | |
| 76111 | Cranked | Ident. No. | 115 | 125 | - | - |
| | Granked | Unit price, € | O. R. | O. R. | | |
| 76111 | Straight | Ident. No. | - | | 178 | 230 |
| | Straight | Unit price, € | | - | O. R. | O. R. |



Prod. group 792



Cutting discs

Medium-hard, for steel / cast iron

Application:

For machining of all construction steels, alloyed and high-alloy steels, stainless steels and cast iron as well as for cutting larger cross-sections of solid material.

Technical Data:

- Washer thickness: 3.0 mm
- Bore diameter: 22.23 mm
- Number of pieces per packet: 25

| Washer Ø (mm) | | | 115 | 125 | 180 | 230 |
|----------------------------------|----------|-----------------------------|---------------------|---------------------|---------------------|---------------------|
| Max. rotation speed (U/min(rpm)) | | | 13285 | 12200 | 8600 | 6600 |
| | Form | | | | | |
| 76112 | Cranked | Ident. No. Unit price, € | 115 O. R. | 125 O. R. | - | - |
| 76112 | Straight | Ident. No. Unit price, € | - | - | 178 O. R. | 230 O. R. |





Cutting discs

Hard, for steel

Application:

Suitable for a wide range of uses, such as for cutting pipes, sheet metal and steel sections.

Technical Data:

- Washer thickness: 3.0 mmBore diameter: 22.23 mm
- Number of pieces per packet: 25

| Washer Ø (mm) | | | 115 | 125 | 180 | 230 |
|---------------|----------------------------------|---------------|-------|-------|-------|-------|
| Max. rotation | Max. rotation speed (U/min(rpm)) | | | 12200 | 8600 | 6600 |
| | Form | | | | | |
| 76110 | Cranked | Ident. No. | 115 | 125 | - | _ |
| | | Unit price, € | O. R. | O. R. | | _ |
| 76110 | Straight | Ident. No. | - | - | 180 | 230 |
| | Straight | Unit price, € | | | O. R. | O. R. |



Prod. group 766



Cutting discs

Very hard, extra thin, for Inox

Application

For burr-free cutting of thin-walled pipes, sheet steel and profiles.

Iron and sulphur free

Technical Data:

Bore diameter: 22.23 mm

Advantage:

 Very hard cutting disc for extremely short cutting times

| Washer Ø (| mm) | | 115 | 115 | 125 | 125 | 180 | 230 |
|----------------------------------|--------------|-----------------------------|------------|------------|-------------------|------------|------------|-------------------|
| Washer thickness (mm) | | | 1.0 | 1.5 | 1.0 | 1.5 | 1.8 | 1.9 |
| Max. rotation speed (U/min(rpm)) | | | 13285 | 13285 | 12200 | 12200 | 8600 | 6600 |
| Number of | pieces per p | acket (PCS) | 50 | 50 | 50 | 50 | 25 | 25 |
| | Form | | | | | | | |
| 76116 | Straight | Ident. No. Unit price. € | 115 O R | 116 O R | 125 O R | 126 O R | 180 O R | 230 O R |







Box of 10 cutting discs

Very hard

Application:

For burr-free cutting of thin-walled pipes, sheet steel and profiles.

Iron and sulphur free

scope of supply and services: In aluminium box

Advantage:

 Very hard cutting disc for extremely short cutting times

| Washer Ø (mm) | 125 | | |
|-------------------------------|-----------|---------------|-------|
| Washer thickness (mm) | 1.0 | | |
| Bore Ø (mm) | 22.23 | | |
| Max. rotation speed (U/min(rp | 12200 | | |
| Number of pieces per packet (| 10 | | |
| | Form | | |
| 76116 | Ctus; abt | Ident. No. | 900 |
| 70110 | Straight | Price/pack, € | O. R. |



Prod. group 792

RHODIUS BRAINTOOLS

XT 8 EXACT - BRAINTOOLS cutting discs

Very hard, type - A 60 U9 BF 1433, ultra thin, for Inox

Application:

Specially for virtually burr-free cutting of thin materials up to 2.5 mm thick.

■ Washer thickness: 0.8 mm

■ Bore diameter: 22.23 mm

■ Max. rotation speed: 12200 U/min

■ Number of pieces per packet: 50

Technical Data:

■ Washer diameter: 125 mm

| | Form | | |
|-------|---------|-----------------------------|---------------------|
| 76114 | Cranked | Ident. No. Unit price, € | 025 O. R. |







TOPLINE cutting discs - XT 38 INOX

hard, iron- and sulphur-free, type - A 46 T 11 BF 1415

Application:

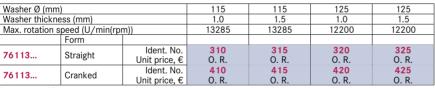
For cutting sheet metal, pipes, steel sections and solid material.

Advantage:

■ Ident. No. 410–425: Very robust, quiet operation due to depressed centre

Technical Data:

Bore diameter: 22.23 mmNumber of pieces per packet: 50









Hard, type - A 46 R BF 80, extra thin

Application:

For burr-free cutting of sheet metals, steel sections and solid materials with cool cutting.

Technical Data:

■ Washer thickness: 1.0 mm

■ Bore diameter: 22.23 mm

■ Number of pieces per packet: 25

Advantage:

Good machining performance with cool grinding

| Washer Ø (mm) | | | 115 | 125 | |
|------------------------|------------|---------------|-------|-------|--|
| Max. rotation speed (U | /min(rpm)) | | 13300 | 12200 | |
| | Form | | | | |
| 76107 | Straight | Ident. No. | 115 | 125 | |
| 70107 | Straight | Unit price, € | O. R. | O. R. | |





Cutting discs and diamond cutting discs



Special clamping flange SFS 76

Bore for drive spindle M14

Application:

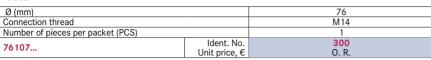
To increase the lateral stability of thin cutting discs.

Execution

 Suitable for 178 and 230-mm straight cutting discs



High surface pressure for significantly more accurate disc guidance





Prod. group 795

RHODIUS BRAINTOOLS

XT 8 EXACT mini cutting discs

Very hard, type - A 60 U9 BF 1433, ultra thin

Application:

Specifically for virtually burr-free and ultra-precise cutting of thin-walled materials up to 2.5 mm thick in conjunction with clamping bolt.

Technical Data:

■ Washer thickness: 0.8 mm

- Bore diameter: 6 mm
- Number of pieces per packet: 50

Execution:

 For compressed air operated machines, flexible shafts, straight grinders, etc.

| Washer Ø (mm) | | | 40 | 50 | 65 |
|-------------------|-----------------|-----------------------------|---------------------|---------------------|---------------------|
| Max. rotation spe | ed (U/min(rpm)) | | 38200 | 30560 | 23500 |
| | Form | | | | |
| 76114 | Straight | ldent. No. Unit price, € | 140 O. R. | 150 O. R. | 165 O. R. |

Prod. group 6BB

| Accessories for | | 76114 140 | 76114 150 | 76114 165 |
|--------------------------|---------------|-----------|-----------|-----------|
| 76114 Clamping bolts For | Ident. No. | 300 | 300 | 300 |
| mini cutting discs | Unit price, € | O. R. | O. R. | O. R. |



| | | I ® |
|--|-----|------------|
| | | " |
| | / W | |

Cutting discs

Hard, extra thin, iron and sulphur-free, for Inox

Application:

For cutting stainless steel.

Technical Data

■ Bore diameter: 22.23 mm

| Washer Ø (mm) | | | 115 | 115 | 125 | 125 | 180 | 230 |
|----------------------------------|-----------------------------------|---------------|-------|-------|-------|-------|-------|-------|
| Washer thi | ckness (mm) | | 1.0 | 1.5 | 1.0 | 1.5 | 1.5 | 1.9 |
| Max. rotation speed (U/min(rpm)) | | | 13285 | 13285 | 12200 | 12200 | 8600 | 6600 |
| Number of | Number of pieces per packet (PCS) | | | 50 | 50 | 50 | 25 | 25 |
| | Form | | | | | | | |
| 7411E Chunimba | | Ident. No. | 115 | 118 | 125 | 128 | 180 | 230 |
| 76115 | Straight | Unit price, € | O. R. |





FTK 24 - TOPLINE cutting discs

Medium-hard, type - A 24 P-BF 26, for aluminium / non-ferrous metals

Application:

Advantage:

For cutting greasy non-ferrous metals.

■ The disc does not clog due to the open structure

- Washer thickness: 2.0 mmBore diameter: 22.23 mm
- Max. rotation speed: 13285 U/min
- Number of pieces per packet: 25

| Washer Ø (mm) | | 115 | 125 | |
|---------------|---------|---------------|-------|-------|
| | Form | | | |
| 76117 | Cranked | Ident. No. | 115 | 125 |
| 70117 | Cranked | Unit price, € | O. R. | O. R. |







Cutting discs A 60 N Supra

Soft, type - A 60 N-BF, extra thin, for aluminium / non-ferrous metals

Application:

For cutting greasy non-ferrous metals.

Max. rotation speed (U/min(rpm))

Advantage:

Washer Ø (mm)

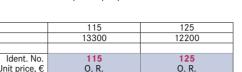
■ The disc does not clog due to the open structure

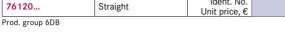
Form

Technical Data:

Washer thickness: 1.0 mm ■ Bore diameter: 22.23 mm

■ Number of pieces per packet: 25





RHODIUS ALPHALINE 600

ST 34 PRO cutting discs - for cut-off saws

Very soft, type - A 36 N8 BF 348, for steel / cast iron

Application:

For cutting all metallic materials used in the workshop environment.

Execution:

■ Suitable for bench-mounted cutting machines with a drive power of up to 3 kW

Technical Data:

- Washer diameter: 350 mm ■ Bore diameter: 25.4 mm
- Max. rotation speed: 12200 U/min
- Number of pieces per packet: 10
- Form: Straight

| Washer thickness (mm) | | 2.5 | 3.0 |
|-----------------------|---------------|-------|-------|
| 76118 | Ident. No. | 350 | 353 |
| 70110 | Unit price, € | O. R. | O. R. |



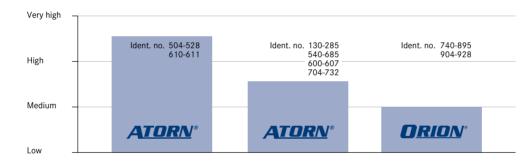
Prod. group 6BB



service life of the disc

Material removed /

Comparison of abrasive flap discs No. 76084



ATORN

machines (> 1000 W)

Abrasive flap disc

Produced from zirconium corundum, fibre glass tool carrier, for steel / inox

■ With OSA approval - greater safety due to regular

Application:

For deburring, removing rust, fettling and for preparatory and finishing work on weld seams.

 Denser abrasive coating for long service life Optimal grinding results with high-performance

- independent product tests
- **Technical Data:** ■ Bore diameter: 22.23 mm
- Number of pieces per packet: 10



Ident. No. 514

| Washer Ø (mm) | | | 115 | 115 | 115 | 125 | 125 | 125 |
|-------------------|----------------------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Max. rotation spe | Max. rotation speed (U/min(rpm)) | | | 13300 | 13300 | 12200 | 12200 | 12200 |
| Grain size | Grain size | | 40 | 60 | 80 | 40 | 60 | 80 |
| | Form | | | | | | | |
| 76084 | Diagonal | Ident. No. Unit price, € | 514 O. R. | 516 O. R. | 518 O. R. | 534 O. R. | 536 O. R. | 538 O. R. |



Abrasive flap disc - high-quality universal disc for steel/stainless steel made of zirconia alumina, tool carrier made of fibre glass

Application:

Ident. No. 540, 560, 580, 640, 650, 660, 680: For deburring, removing rust, fettling and for preparatory and finishing work on weld seams.

Ident. No. 545, 565, 585, 645, 655, 665, 685: For smoothing, removing rust, grinding and similar surface applications.

Technical Data:

■ Bore diameter: 22.23 mm

Number of pieces per packet: 10



| Washer Ø (mm) | | | 115 | 115 | 115 | 125 | 125 | 125 | 125 |
|-----------------|------------------|---------------|-------|-------|-------|-------|-------|-------|-------|
| Max. rotation s | peed (U/min(rpm) |) | 13300 | 13300 | 13300 | 12200 | 12200 | 12200 | 12200 |
| Grain size | Grain size | | | 60 | 80 | 40 | 50 | 60 | 80 |
| | Form | | | | | | | | |
| 76084 | Diagonal | Ident. No. | 540 | 560 | 580 | 640 | 650 | 660 | 680 |
| 70004 | Diagonal | Unit price, € | O. R. | O. R. | O. R. | 0. R. | O. R. | O. R. | 0. R. |
| 76084 | Straight | Ident. No. | 545 | 565 | 585 | 645 | 655 | 665 | 685 |
| 70004 | | Unit price, € | O. R. | O. R. | O. R. | 0. R. | 0. R. | O. R. | 0. R. |

Prod. group 792



Abrasive flap disc

Produced from ceramic abrasive grain, fibre glass tool carrier, for steel

Application:

Ideal for extreme grinding work or special tasks when machining high-alloy steels with cool grinding.

Advantage:

- · Self-sharpening ceramic abrasive grain for permanently high material removal
- Full synthetic resin bond with grinding additives for high wear resistance
- With OSA approval greater safety due to regular independent product tests

Technical Data:

- Bore diameter: 22.23 mm
- Number of pieces per packet: 10



| Washer Ø (mm) | | | 115 | 115 | 115 | 125 | 125 | 125 |
|----------------------------------|----------|---------------|-------|-------|-------|-------|-------|-------|
| Max. rotation speed (U/min(rpm)) | | | 13300 | 13300 | 13300 | 12200 | 12200 | 12200 |
| Grain size | | | 40 | 60 | 80 | 40 | 60 | 80 |
| | Form | | | | | | | |
| 76084 | Diagonal | Ident. No. | 205 | 210 | 215 | 305 | 310 | 315 |
| 70004 | Diagonal | Unit price, € | O. R. |

Prod. group 792



Abrasive flap disc - extremely robust thanks to steel support

made of zirconia alumina, tool carrier made of steel, for steel/non-ferrous metals

Application:

Ident. No. 130, 140, 150, 160, 180: For deburring, removing rust, fettling and for preparatory and finishing work on weld seams.

Ident. No. 135, 145, 155, 165, 185: For smoothing, removing rust, grinding and similar surface applications.

Advantage:

• High flexibility and abrasive capacity whilst retaining uniform grinding pattern and low noise emissions

- Extremely robust thanks to steel carrier
- With OSA approval greater safety due to regular independent product tests

Technical Data:

- Washer diameter: 115 mm
- Bore diameter: 22.23 mm
- Max. rotation speed: 13300 U/min
- Number of pieces per packet: 10



| Grain size | | | 36 | 40 | 50 | 60 | 80 |
|------------|----------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | Form | | | | | | |
| 76084 | Diagonal | Ident. No. Unit price, € | 130 O. R. | 140 O. R. | 150 O. R. | 160 O. R. | 180 O. R. |
| 76084 | Straight | Ident. No. Unit price, € | 135 O. R. | 145 O. R. | 155 O. R. | 165 O. R. | 185 O. R. |

Prod. group 792



Abrasive flap disc

Produced from zirconium corundum, plastic tool carrier, for Inox / steel / cast iron

For deburring, removing rust, fettling and for preparatory and finishing work on weld seams.

Advantage:

■ Food-safe ABS special plastic backing for vibration-dampened work

■ Backing can also be machined - no glass dust particles produced

Technical Data:

■ Bore diameter: 22.23 mm Number of pieces per packet: 10



Abrasive flap disc and angle grinding mop wheel



| Washer Ø (mm) | | | 115 | 115 | 115 | 115 | 125 | 125 | 125 | 125 |
|----------------------------------|------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Max. rotation speed (U/min(rpm)) | | | 13200 | 13200 | 13200 | 13200 | 11800 | 11800 | 11800 | 11800 |
| Grain size | | 40 | 60 | 80 | 120 | 40 | 60 | 80 | 120 | |
| | Form | | | | | | | | | |
| 76094 Diagonal Ident. No. | | 704 | 706 | 708 | 712 | 724 | 726 | 728 | 732 | |
| 76084 Diagonal | | Unit price, € | O. R. |

Prod. group 792

Abrasive flap disc

Made of pure zirconium, high-tech natural fibre tool carrier, for lnox / steel

Application:

For deburring, removing rust, fettling and for preparatory and finishing work on weld seams.

 Natural fibre tool carrier for flexible and lowvibration work

- Fibre glass and resin-free self-trimming
- Reduced dust emissions and balanced carbon footprint

Technical Data:

■ Bore diameter: 22.23 mm ■ Number of pieces per packet: 10



| Washer Ø (mm) | | | 115 | 115 | 115 | 115 | 125 | 125 | 125 | 125 |
|---|------------|---------------------|---------------------|---------------------|---------------------|-------|---------------------|---------------------|-------|-------|
| Max. rotation speed (U/min(rpm)) | | | 13200 | 13200 | 13200 | 13200 | 12200 | 12200 | 12200 | 12200 |
| Grain size | Grain size | | | 60 | 80 | 120 | 40 | 60 | 80 | 120 |
| | Form | | | | | | | | | |
| 76084 Diagonal Ident. No. Unit price, € | | 600 O. R. | 601 O. R. | 602 O. R. | 603 O. R. | 604 | 605 O. R. | 606 O. R. | 607 | |
| | _ | Unit price, € | U. K. | U. K. | U. K. | U. K. | U. K. | U. K. | U. K. | U. K. |

Prod. group 792



Abrasive flap disc

Produced from multi-hybrid grain, high-tech natural fibre tool carrier

Application:

For deburring, removing rust, fettling and for preparatory and finishing work on weld seams.

Execution:

• Multigrain grinds like grain size 40, produces a grinding pattern like grain size 50-60 and prevents discolouration and deformation by heat

Advantage:

• Natural fibre tool carrier for flexible and lowvibration work

- Fibre glass and resin-free self-trimming
- Reduced dust emissions and balanced carbon footprint
- The world's first multi-function abrasive flap disc for all metals

Technical Data:

- Bore diameter: 22.23 mm
- Max. rotation speed: 12200 U/min
- Grain size: 40
- Number of pieces per packet: 10



| Washer Ø (mm) | | | 115 | 125 |
|---------------|----------|---------------|-------|-------|
| | Form | | | |
| 74004 | Diagonal | Ident. No. | 610 | 611 |
| 76084 | Diagonal | Unit price, € | O. R. | O. R. |
| | | | | |

Prod. group 792



POLIFAN®-STRONG abrasive flap disc - for machining edges/weld seams

made of zirconia alumina, conical design, tool carrier made of fibre glass, for steel

Application:

Ident. No. 120: For rough steel machining, e.g. removing rust, fettling and for preparatory and finishing work on weld seams.

Ident. No. 125: For edge machining, e.g. chamfering and deburring.

Advantage:

• Maximum aggressiveness down to the last grain - optimally suited to use on high-performance

Technical Data:

- Washer diameter: 125 mm ■ Bore diameter: 22.23 mm
- Max. rotation speed: 12200 U/min • Number of pieces per packet: 10

| Grain size | | | 36 | 50 |
|------------|----------|-----------------------------|---------------------|---------------------|
| | Form | | | |
| 76085 | Diagonal | Ident. No. Unit price, € | 120 O. R. | 125 O. R. |





Abrasive flap disc

Produced from zirconium corundum, fibre glass tool carrier, for all metals

Application:

For deburring, removing rust, fettling and for preparatory and finishing work on weld seams.

Advantage:

Versatile application for steel and non-ferrous metals

 With OSA approval - greater safety due to regular independent product tests

Technical Data:

Bore diameter: 22.23 mm
Number of pieces per packet: 10



Ident. No. 936

| Washer Ø (mm) | | | 115 | 115 | 115 | 125 | 125 | 125 |
|------------------------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| Max. rotation spe | ed (U/min(rpm)) | | 13300 | 13300 | 13300 | 12200 | 12200 | 12200 |
| Grain size | Grain size | | | 60 | 80 | 40 | 60 | 80 |
| | Form | | | | | | | |
| 76084 | 74004 Diagonal Ident. No. | | 914 | 916 | 918 | 934 | 936 | 938 |
| 76084 Diagonal Unit price, € | | O. R. | O. R. | 0. R. | O. R. | O. R. | O. R. | |

Prod. group 766



Abrasive flap disc

Produced from zirconium corundum, plastic tool carrier, for Inox / steel / cast iron

Application:

For smoothing, removing rust, grinding and similar surface applications.

Execution:

CAL zirconium: Cooling agent layer for cooler grinding

Advantage:

- Highly elastic backing adapts perfectly to the workpiece surface
- For especially smooth and flat surfaces, such as for surface grinding of large plants

Technical Data:

- Bore diameter: 22.23 mm
- Number of pieces per packet: 10



| Washer Ø (mr | Washer Ø (mm) | | | 115 | 115 | 115 | 125 | 125 | 125 | 125 |
|----------------------------------|---------------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Max. rotation speed (U/min(rpm)) | | | 13200 | 13200 | 13200 | 13200 | 11800 | 11800 | 11800 | 11800 |
| Grain size | Grain size | | | 60 | 80 | 120 | 40 | 60 | 80 | 120 |
| | Form | | | | | | | | | |
| 76094 | 76084 Diagonal Ident. No. | | 740 | 760 | 780 | 795 | 840 | 860 | 880 | 895 |
| 70004 | Diagonal | Unit price, € | O. R. | O. R. | 0. R. | O. R. | O. R. | O. R. | 0. R. | O. R. |

Prod. group 766



POLIFAN®-CURVE abrasive flap disc

Produced from zirconium corundum Z, in radial design, fibre glass tool carrier, for steel

Application:

For fillet weld machining

Advantage:

- Unique radial design for perfect grinding of the fillet weld geometry
- High productivity due to particularly high machining performance with excellent service life in fillet weld machining

Technical Data:

- Washer diameter: 125 mm
 Bore diameter: 22.23 mm
 Max. rotation speed: 12200 U/min
- Grain size: 40
- Number of pieces per packet: 10



| Washer thickness (mm | 1) | 14 | 16 | |
|--------------------------|--------|--------------|-----|-----|
| Min. fillet seam width (| mm) | | 5 | 8 |
| | Form | | | |
| 76085 | Radial | Ident. No. | 110 | 115 |
| 70005 | Raulai | Unit price € | O R | O R |

Prod. group 795



POLIFAN®-CO-CURVE abrasive flap disc

Produced from ceramic abrasive grain CO, fibre glass tool carrier, for lnox

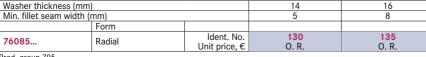
Application:

For fillet weld machining

Advantage:

- Unique radial design for perfect grinding of the fillet weld geometry
- High productivity due to particularly high machining performance with excellent service life in fillet weld machining
- Ceramic abrasive grain for cool grinding and to achieve fine surface finishes

- Washer diameter: 125 mm
- Bore diameter: 22.23 mm
- Max. rotation speed: 13300 U/minGrain size: 60
- Number of pieces per packet: 10









RHODIUS

Vision abrasive flap disc

Produced from zirconium corundum, fibre glass tool carrier, iron and sulphur-free

Application:

For direct abrasion inspection when deburring, chamfering, sanding and during preparatory and finishing work on weld seams.

Advantage:

 Reduces costly machining errors by controlled material removal

• For universal application: Stainless steel, steel, non-ferrous metals, plastic, varnish and filler

Technical Data:

■ Washer diameter: 125 mm

■ Bore diameter: 22.23 mm

■ Max. rotation speed: 12200 U/min ■ Number of pieces per packet: 10

| Grain size | | | 40 | 60 | 80 |
|------------|----------|---------------|-------|-------|-------|
| | Form | | | | |
| 76084 | Diagonal | Ident. No. | 024 | 026 | 028 |
| 70004 | Diagonal | Unit price, € | O. R. | O. R. | O. R. |







Example application



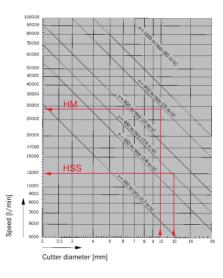
HSS and cemented carbide milling bits

For electric and compressed air operated machines and systems with flexible shafts

When selecting burrs, take into consideration the material to be processed and the possible speed.

In order to determine the correct speed range for the corresponding HSS or carbide burr for your application, observe as follows

- Select the requested toothing on the basis of the material to be processed and on the basis of the resulting cutting speed.
- 2. Refer to the diagram on the right to select your required cutter diameter and the cutting speed determined for the selected toothing; the point of intersection of the lines represents the required speed range



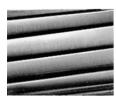


Shank diameter 6 mm

Application:

For deburring, chamfering, milling, contour milling, fettling and for welding seam machining.

■ Toothing 1: very rough, without chip breaker groove



Toothing 1: very rough, without chip breaker groove
Cutting speed: 200–300 m/min
Application: Aluminium (long-chipping),
light metal alloys, lead, tin, plastic materials (thermoplastics and duroplastics) fibre, rubber, wood



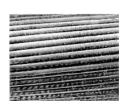
Toothing 2: rough, with chip breaker groove Cutting speed: 150-300 m/min

Application: Light metal (short-chipping), brass, copper, electrolyte, red cast, bronze, zinc, magnesium alloy

- Toothing 2: rough, with chip breaker groove
- Toothing 3: medium, with chip breaker groove

Notes:

Type designation with A... = without serration



Toothing 3: medium, with chip breaker groove Cutting speed 60-180 m/min Application: Steel and steel cast, alloyed and non-alloyed



Ident. No. 361-363



Ident. No. 292-293



Ident. No. 222-223



Ident. No. 226



Ident. No. 231-233



Ident. No. 241-243



Ident. No. 251-253



Ident. No. 181-183



Ident. No. 272-273



Ident. No. 302-303



Ident. No. 351-353



Ident. No. 152-153



Ident. No. 192-193



Ident. No. 311-313



Ident. No. 262-263



Ident. No. 171-173



Ident. No. 321-323



Ident. No. 112-113



Ident. No. 161-163



Ident. No. 331-333



Ident. No. 341-343

| Serration type | ! | | | | | | 1 | 2 | 3 |
|----------------|-----------------|---------------------|-----------------------------|-------------|------------------|-----------------------------|---------------------|---------------------|---------------------|
| | Form | Cutting edge Ø (mm) | Cutting edge length (mm) | Length (mm) | Type description | | | | |
| 76001 | Cone | 16.0 | 30.0 | 70 | KEL 1630.06 | Ident. No. Unit price, € | 361 O. R. | 362 O. R. | 363 O. R. |
| 76001 | Conical | 12.0 | 30.0 | 70 | KSK 1230.06 | Ident. No. Unit price, € | - | 292 O. R. | 293 O. R. |
| 76001 | Ball shape | 4.5 | 4.0 | 60 | KUD 0404.06 | Ident. No. Unit price, € | - | 222 O. R. | 223 O. R. |
| 76001 | Ball shape | 6.0 | 5.0 | 60 | KUD 0605.06 | Ident. No. Unit price, € | - | - | 226 O. R. |
| 76001 | Ball shape | 8.0 | 7.0 | 60 | KUD 0807.06 | Ident. No. Unit price, € | 231 O. R. | 232 O. R. | 233 O. R. |
| 76001 | Ball shape | 12.0 | 10.0 | 60 | KUD 1210.06 | Ident. No. Unit price, € | 241 O. R. | 242 O. R. | 243 O. R. |
| 76001 | Ball shape | 16.0 | 14.0 | 60 | KUD 1614.06 | Ident. No. Unit price, € | 251 O. R. | 252 O. R. | 253 O. R. |
| 76001 | Ogive shape | 6.0 | 18.0 | 58 | SPG 0618.06 | Ident. No. Unit price, € | 181 O. R. | 182 O. R. | 183 O. R. |
| 76001 | Ogive shape | 12.0 | 20.0 | 60 | SPG 1220.06 | Ident. No. Unit price, € | - | 272 O. R. | 273 O. R. |
| 76001 | Ogive shape | 12.0 | 30.0 | 70 | SPG 1230.06 | Ident. No. Unit price, € | - | 302 O. R. | 303 O. R. |
| 76001 | Ogive shape | 16.0 | 30.0 | 70 | SPG 1630.06 | Ident. No. Unit price, € | 351 O. R. | 352 O. R. | 353 O. R. |
| 76001 | Conical pointed | 10.0 | 20.0 | 60 | SKM 1020.06 | Ident. No. Unit price, € | - | 152 O. R. | 153 O. R. |
| 76001 | Conical pointed | 6.0 | 18.0 | 58 | SKM 0618.06 | Ident. No. Unit price, € | - | 192 O. R. | 193 O. R. |
| 76001 | Conical pointed | 12.0 | 30.0 | 70 | SKM 1230.06 | Ident. No. Unit price, € | 311 O. R. | 312 O. R. | 313 O. R. |
| 76001 | Drop shape | 12.0 | 20.0 | 60 | TRE 1220.06 | Ident. No. Unit price, € | - | 262 O. R. | 263 O. R. |

Milling bits



| Serration type |) | | | | | | 1 | 2 | 3 |
|----------------|-------------------|---------------------|-----------------------------|-------------|------------------|-----------------------------|---------------------|---------------------|---------------------|
| | Form | Cutting edge Ø (mm) | Cutting edge length (mm) | Length (mm) | Type description | | | | |
| 76001 | Cylindrical shape | 6.0 | 20.0 | 60 | WRC 0620.06 | Ident. No. Unit price, € | 171 O. R. | 172 O. R. | 173 O. R. |
| 76001 | Cylindrical shape | 12.0 | 25.0 | 65 | WRC 1225.06 | Ident. No. Unit price, € | 321 O. R. | 322 O. R. | 323 O. R. |
| 76001 | Cylindrical | 10.0 | 13.0 | 53 | ZYA 1013.06 | Ident. No. Unit price, € | - | 112 O. R. | 113 O. R. |
| 76001 | Cylindrical | 6.0 | 16.0 | 56 | ZYA 0616.06 | Ident. No. Unit price, € | 161 O. R. | 162 O. R. | 163 O. R. |
| 76001 | Cylindrical | 12.0 | 25.0 | 65 | ZYA 1225.06 | Ident. No. Unit price, € | 331 O. R. | 332 O. R. | 333 O. R. |
| 76001 | Cylindrical | 16.0 | 25.0 | 65 | ZYA 1625.06 | Ident. No. Unit price, € | 341 O. R. | 342 O. R. | 343 O. R. |

Prod. group 792



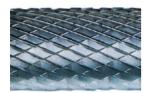
Cemented carbide milling bit

Shaft diameter 3 mm

DIN Similar to 8033

Application:

For deburring and finishing work on cast parts, roughly machined workpieces or welding seams - can be used in hand-guided or on stationary machines.



Toothing 6 Cutting speed: 450-900 m/min Application: Steel, stainless steel, cast iron, welding seams



Toothing 2 Cutting speed: 400-800 m/min Application: Steel cast, grey cast iron, welding seams, hardened steels



■ Precise spindle bearing with high concentricity required



Ident. No. 201-204



Ident. No. 371-384



Ident. No. 401-404



Ident. No. 281-294



Ident. No. 111-124



Ident. No. 141-154



Ident. No. 211-214



Ident. No. 321-324



Ident. No. 231-244



Ident. No. 221-224



Ident. No. 021-084

| Ident. No. 261-27 |
|-------------------|
| |
| Ident. No. 101-10 |

| Serration type | | | | | | | 6 | 2 |
|----------------|---------------------|---------------------|-----------------------------|-------------|------------------|-----------------------------|-----------------------|---------------------|
| | Form | Cutting edge Ø (mm) | Cutting edge length (mm) | Length (mm) | Type description | | | |
| 76003 | Flame configuration | 3 | 6.0 | 38 | SPH 0306.03 | Ident. No. Unit price, € | 201 O. R. | 204 O. R. |
| 76003 | Cone | 3 | 15.0 | 38 | KEL 0313.03 | Ident. No. Unit price, € | 371 O. R. | 374 O. R. |
| 76003 | Cone | 6 | 16.0 | 48 | KEL 0613.03 | Ident. No. Unit price, € | 381 O. R. | 384 O. R. |
| 76003 | Conical | 3 | 2.0 | 38 | KSK 0302.03 | Ident. No. Unit price, € | 401 (O. R.) | 404 O. R. |
| 76003 | Ball shape | 3 | 2.0 | 38 | KUD 0302.03 | Ident. No. Unit price, € | 141 O. R. | 144 O. R. |
| 76003 | Ball shape | 6 | 4.0 | 38 | KUD 0604.03 | Ident. No. Unit price, € | 151 O. R. | 154 O. R. |

| Serration type | | | | | | | 6 | 2 |
|----------------|----------------------------|---------------------|-----------------------------|-------------|------------------|-----------------------------|---------------------|---------------------|
| | Form | Cutting edge Ø (mm) | Cutting edge length (mm) | Length (mm) | Type description | | | |
| 76003 | Semicircular shape | 3 | 12.0 | 38 | RBF 0313.03 | Ident. No. Unit price, € | 231 O. R. | 234 O. R. |
| 76003 | Semicircular shape | 6 | 12.0 | 45 | RBF 0613.03 | Ident. No. Unit price, € | 241 O. R. | 244 O. R. |
| 76003 | Ogive shape | 3 | 12.0 | 38 | SPG 0313.03 | Ident. No. Unit price, € | 261 O. R. | 264 O. R. |
| 76003 | Ogive shape | 6 | 12.0 | 45 | SPG 0613.03 | ldent. No. Unit price, € | 271 O. R. | 274 O. R. |
| 76003 | Conical pointed | 3 | 11.0 | 38 | SKM 0311.03 | Ident. No. Unit price, € | 281 O. R. | 284 O. R. |
| 76003 | Conical pointed | 6 | 12.0 | 48 | SKM 0613.03 | Ident. No. Unit price, € | 291 O. R. | 294 O. R. |
| 76003 | Drop shape | 3 | 6.0 | 38 | TRE 0307.03 | Ident. No. Unit price, € | 211 O. R. | 214 O. R. |
| 76003 | Drop shape | 6 | 10.0 | 42 | TRE 0610.03 | Ident. No. Unit price, € | 221 O. R. | 224 O. R. |
| 76003 | Cylindrical shape | 2 | 11.0 | 38 | WRC 0211.03 | Ident. No. Unit price, € | 101 O. R. | 104 O. R. |
| 76003 | Cylindrical shape | 3 | 12.0 | 38 | WRC 0313.03 | Ident. No. Unit price, € | 111 O. R. | 114 O. R. |
| 76003 | Cylindrical shape | 6 | 12.0 | 45 | WRC 0613.03 | Ident. No. Unit price, € | 121 O. R. | 124 O. R. |
| 76003 | Angle milling cutter shape | 3 | 4.0 | 38 | WKN 0304.03 | ldent. No. Unit price, € | 321 O. R. | 324 O. R. |
| 76003 | Cylindrical | 3 | 14.0 | 38 | ZYA 0313.03 | Ident. No. Unit price, € | 021 O. R. | 024 O. R. |
| 76003 | Cylindrical | 6 | 12.0 | 45 | ZYA 0613.03 | Ident. No. Unit price, € | 041 O. R. | 044 O. R. |
| 76003 | Cylindrical | 3 | 14.0 | 38 | ZYAS 0313.03 | Ident. No. Unit price, € | 061 O. R. | 064 O. R. |
| 76003 | Cylindrical | 6 | 12.0 | 45 | ZYAS 0613.03 | Ident. No. Unit price, € | 081 O. R. | 084 O. R. |

Prod. group 792



Cemented carbide milling bit set, 10 piece

Shank diameter 3 mm

DIN Similar to 8033

Application:

For deburring and finishing work on cast parts, roughly machined workpieces or welding seams - can be used in hand-guided or on stationary machines.

Execution:

■ For use with steel, stainless steel, cast iron

- Cutting speed: 450-900 m/min
 - Precise spindle bearing with high concentricity required

scope of supply and services:

1x ZYA 0313, ZYAS 0313, SKM 0311, WRC 0313, KEL 0308, SPH 0308, TRE 0306, SPG 0313, KUD 0302, RBF 0313 each, in plastic stand

Notes:

| Number of pieces in assortment/set (PCS) | Serration type | 7600 ID no | |
|--|----------------|-------------------|----------|
| 10 | 6 | 921 | O. R. |
| | | Set | price, € |

Prod. group 792





Cemented carbide milling bit

Shaft diameter 6 mm

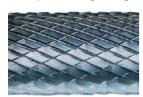
DIN Similar to 8033

Application:

For deburring and finishing work on cast parts, roughly machined workpieces or welding seams - can be used in hand-guided or on stationary machines.

Execution:

■ Precise spindle bearing with high concentricity required



Toothing 6 Cutting speed: 450-900 m/min Application: Steel, stainless steel, cast iron, welding seams



ALU toothing Cutting speed: 600-960 m/min Application: Aluminium, non-ferrous metals, plastic materials, light metals



Type designation with S... = serration

Toothing 2 Cutting speed: 400-800 m/min Application: Steel cast, grey cast iron, welding seams, hardened steels



Ident. No. 651



Ident. No. 080-081, 130-134



Ident. No. 011, 101 Ident. No. 021, 111 Ident. No. 060-061, 120-121

| Serration type | 9 | | | | | | 6 | Aluminium | 2 |
|----------------|---------------------|---------------------|-----------------------------|-------------|------------------|-----------------------------|---------------------|---------------------|---------------------|
| | Form | Cutting edge Ø (mm) | Cutting edge length (mm) | Length (mm) | Type description | | | | |
| 76006 | Flame configuration | 8 | 20.0 | 64 | SPH 0820.06 | Ident. No. Unit price, € | 651 O. R. | - | 1 |
| 76006 | Flame configuration | 12 | 30.0 | 77 | SPH 1230.06 | Ident. No. Unit price, € | 661 O. R. | - | - |
| 76006 | Cone | 6 | 18.0 | 50 | KEL 0616.06 | ldent. No. Unit price, € | 761 O. R. | - | - |
| 76006 | Cone | 10 | 26.0 | 76 | KEL 1026.06 | ldent. No. Unit price, € | 771 O. R. | 770 O. R. | - |
| 76006 | Cone | 12 | 28.0 | 77 | KEL 1230.06 | Ident. No. Unit price, € | 781 O. R. | 780 O. R. | - |
| 76006 | Ball shape | 6 | 5.0 | 50 | KUD 0605.06 | Ident. No. Unit price, € | 321 O. R. | - | - |
| 76006 | Ball shape | 8 | 7.0 | 52 | KUD 0807.06 | Ident. No. Unit price, € | 331 O. R. | - | - |
| 76006 | Ball shape | 10 | 9.0 | 54 | KUD 1009.06 | Ident. No. Unit price, € | 341 O. R. | 340 O. R. | - |
| 76006 | Ball shape | 12 | 10.0 | 56 | KUD 1210.06 | Ident. No. Unit price, € | 351 O. R. | 350 O. R. | 354 O. R. |
| 76006 | Ball shape | 15 | 14.0 | 59 | KUD 1614.06 | Ident. No. Unit price, € | 361 O. R. | - | - |
| 76006 | Semicircular shape | 6 | 18.0 | 50 | RBF 0618.06 | Ident. No. Unit price, € | 421 O. R. | - | - |
| 76006 | Semicircular shape | 8 | 20.0 | 65 | RBF 0820.06 | Ident. No. Unit price, € | 431 O. R. | - | - |
| 76006 | Semicircular shape | 10 | 20.0 | 64 | RBF 1020.06 | Ident. No. Unit price, € | 441 O. R. | 440 O. R. | - |
| 76006 | Semicircular shape | 12 | 25.0 | 70 | RBF 1225.06 | Ident. No. Unit price, € | 451 O. R. | 450 O. R. | 454 O. R. |
| 76006 | Ogive shape | 6 | 18.0 | 50 | SPG 0616.06 | Ident. No. Unit price, € | 611 O. R. | - | - |

| Serration type | 9 | | | | | | 6 | Aluminium | 2 |
|----------------|-------------------|---------------------|-----------------------------|-------------|------------------|-----------------------------|---------------------|---------------------|---------------------|
| | Form | Cutting edge Ø (mm) | Cutting edge length (mm) | Length (mm) | Type description | | | | |
| 76006 | Ogive shape | 8 | 20.0 | 64 | SPG 0820.06 | Ident. No. Unit price, € | 621 O. R. | - | - |
| 76006 | Ogive shape | 10 | 20.0 | 64 | SPG 1020.06 | Ident. No. Unit price, € | 631 O. R. | - | - |
| 76006 | Ogive shape | 12 | 25.0 | 70 | SPG 1225.06 | Ident. No. Unit price, € | 641 O. R. | - | 644 O. R. |
| 76006 | Conical | 6 | 20.0 | 50 | SKM 0620.06 | Ident. No. Unit price, € | 711 O. R. | - | - |
| 76006 | Conical | 10 | 20.0 | 64 | SKM 1020.06 | Ident. No. Unit price, € | 731 O. R. | - | - |
| 76006 | Conical pointed | 12 | 25.0 | 71 | SKM 1225.06 | Ident. No. Unit price, € | 741 O. R. | - | - |
| 76006 | Drop shape | 6 | 1.0 | 50 | TRE 0610.06 | Ident. No. Unit price, € | 371 O. R. | - | - |
| 76006 | Drop shape | 10 | 15.0 | 60 | TRE 1015.06 | Ident. No. Unit price, € | 381 O. R. | - | - |
| 76006 | Drop shape | 12 | 20.0 | 67 | TRE 1220.06 | Ident. No. Unit price, € | 391 O. R. | - | - |
| 76006 | Cylindrical shape | 6 | 18.0 | 50 | WRC 0616.06 | Ident. No. Unit price, € | 201 O. R. | - | - |
| 76006 | Cylindrical shape | 8 | 20.0 | 64 | WRC 0820.06 | Ident. No. Unit price, € | 211 O. R. | - | 214 O. R. |
| 76006 | Cylindrical shape | 10 | 20.0 | 64 | WRC 1020.06 | Ident. No. Unit price, € | 221 O. R. | 220 O. R. | - |
| 76006 | Cylindrical shape | 12 | 25.0 | 70 | WRC 1225.06 | Ident. No. Unit price, € | 231 O. R. | 230 O. R. | 234 O. R. |
| 76006 | Cylindrical | 6 | 18.0 | 50 | ZYAS 0616.06 | Ident. No. Unit price, € | 011 0. R. | - | - |
| 76006 | Cylindrical | 8 | 20.0 | 64 | ZYAS 0820.06 | Ident. No. Unit price, € | 021 O. R. | - | - |
| 76006 | Cylindrical | 10 | 20.0 | 64 | ZYAS 1020.06 | Ident. No. Unit price, € | 061 O. R. | 060 O. R. | - |
| 76006 | Cylindrical | 12 | 25.0 | 70 | ZYAS 1225.06 | Ident. No. Unit price, € | 081 0. R. | 080 O. R. | - |
| 76006 | Cylindrical | 6 | 18.0 | 50 | ZYA 0616.06 | Ident. No. Unit price, € | 101 O. R. | - | - |
| 76006 | Cylindrical | 8 | 20.0 | 64 | ZYA 0820.06 | Ident. No. Unit price, € | 111 O. R. | - | - |
| 76006 | Cylindrical | 10 | 20.0 | 64 | ZYA 1020.06 | Ident. No. Unit price, € | 121 O. R. | 120 O. R. | - |
| 76006 | Cylindrical | 12 | 25.0 | 70 | ZYA 1225.06 | Ident. No. Unit price, € | 131 O. R. | 130 O. R. | 134 O. R. |

Prod. group 792



Cemented carbide milling bit sets

Shaft Ø 6 mm, teeth 6

DIN Similar to 8033

Application:

For deburring and finishing work on cast parts, roughly machined workpieces or welding seams - can be used in hand-guided or on stationary machines.

Execution:

- Cutting speed: 450-900 m/min
- Precise spindle bearing with high concentricity
- Ident. No. 920: For use with cast iron, unhardened steel, tool steel and alloyed stainless steel

• Ident. No. 931: Universal application for metals of all kinds (excl. aluminium)

Advantage:

■ Ident. No. 920: With TiAIN coating for longer service life, strength and effective manufacture

scope of supply and services:

Ident. No. 920: 1x ZYA-S 1020, WRC 1225, RBF 1225, SPG 1020, KEL 1228 each, in plastic box **Ident. No. 931:** 1x ZYA 1020, ZYA 1225, WRC 1020, WRC 1225, KEL 1230, TRE 1016, SPG 1020, SPG 1225, KUD 1210, RBF 1225 each, in plastic box







Ident. No. 920 Ident. No. 931

| Number of pieces in assortmen | t/set (PCS) | 5 | 10 |
|-------------------------------|----------------------------|---------------------|---------------------|
| Serration type | | 6 | 6 |
| 76006 | Ident. No. Set price, € | 920 O. R. | 931 O. R. |
| | | | |



for use on all commercially available angle grinders and angle polishers

■ Number of pieces per packet: 1

Technical Data:

Connection thread: M14

■ Edging material: Steel

Application:

No. 76085: For light to medium cleaning work on large surfaces and welding seams.

No. 76088: Aggressive rotary wire brush for heavy cleaning applications on large surfaces and welding

| | | | | | , | |
|------------------------------|-----------------------------|-------------------------|-----------------------|------------|---------------------|---------------------|
| Version | | Braided Braided Braided | | Corrugated | Corrugated | |
| Head Ø (mm) | | 65 | 80 | 100 | 60 | 100 |
| Max. rotation s min(rpm)) | speed (U/ | 12500 | 12500 8500 8500 12500 | | 12500 | 8500 |
| Wire Ø (mm) | | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 |
| Number of bra | ids (PCS) | 18 | 22 | 26 | 0 | 0 |
| 76088 | Ident. No. | 066 | 111 | 121 | | |
| Unit price, € | | 0. R. | 0. R. | 0. R. | - | _ |
| 76085 | Ident. No. Unit price, € | - | - | - | 007 O. R. | 011 O. R. |

Prod. group 792



No. 76085 007



No. 76088 111-76088 121

<u>ATOR</u>N®

Cylinder wire brushes

plaited, for use on all commercially available grinders and angle polishers

Application:

Ident. No. 011, 111: For use in hard-to-reach places. For preparatory and finishing work on weld seams, for removing rust, scale, varnish, slag, rubber residues and for deburring.

Ident. No. 021-061, 121-161: For angle grinders and polishers, for use in hard-to-reach places. For preparatory and finishing work on weld seams, for removing rust, scale, varnish, slag, rubber residues and for deburring.

Execution:

■ Wire sections left-twisted

Advantage:

■ Long life, even with diagonal application

Technical Data:

- Wire diameter: 0.5 mm
- Number of pieces per packet: 1



| Head Ø (mm) | | | 115 | 115 | 125 | 178 |
|-----------------|--------------------|-----------------------------|---------------------|---------------------|-------|---------------------|
| Width of head (| (mm) | | 12 | 12 | 13 | 13 |
| Max. rotation s | peed (U/min(rpi | n)) | 12500 | 12500 | 12500 | 12000 |
| Number of brai | ds (PCS) | | 20 | 20 | 20 | 30 |
| Connection thr | ead | | M14 | - | - | - |
| Bore Ø (mm) | | | - | 22.2 | 22.2 | 22.2 |
| | Edging material | | | | | |
| 76089 | Steel | ldent. No. | 011 | 021 | 031 | 061 |
| 70007 | Steel | Unit price, € | 0. R. | O. R. | O. R. | 0. R. |
| 76089 | Stainless steel | Ident. No. Unit price, € | 111 O. R. | 121 O. R. | - | 161 O. R. |

Prod. group 792



Conical brushes

plaited, for use on all commercially available grinders and angle polishers

Application:

For use in hard-to-reach places. For preparatory and finishing work on weld seams, for removing rust, scale, varnish, slag, rubber residues and for deburring.

Execution:

■ Wire sections left-twisted

Advantage:

■ Long life, even with diagonal application

Technical Data:

- Max. rotation speed: 12500 U/min
- Wire diameter: 0.5 mm
- Number of braids: 18
- Connection thread: M14
- Number of pieces per packet: 1

| | Edging material | St | eel | | niess eel |
|-------------|--------------------|-------|--------|-------------------|--------------|
| Head Ø (mm) | Width of head (mm) | 7608 | | 7608 ID no | |
| | | ID no | ID no. | | |
| 100 | 13 | 081 | O. R. | 181 | O. R. |
| 115 | 15 | 091 | O. R. | 191 | O. R. |
| | | | Unit p | orice, € | |





Cylinder wire brushes with shank

made of steel, brass or V2A steel wire, shaft Ø 6 mm, max. speed 15,000 rpm

Application:

ldent. No. 011-081, 111-171: For roughing, deburring, paint stripping, descaling, matting and cleaning.

Ident. No. 091, 181: For machining weld seams, removing hard scale, slag, underbody sealing, sand residues and for deburring.



Ident. No. 011, 031-041, 061-071, 111-171 Steel rotary brush



Ident. No. 021, 051, 081 Brass rotary brush

Execution:

• Ident. No. 091, 181: With plaited wire (number of plaits: 15)

Technical Data:

■ Number of pieces per packet: 5



ldent. No. 091, 181 Rotary brush, knotted-type steel

| | Edging material Steel | | | | | | ass | | nless eel |
|-------------|-----------------------|-------------|-------------------------|-----------|-------|--------|----------|--------|--------------|
| Head Ø (mm) | Width of head (mm) | Wire Ø (mm) | Max. rotation speed (U/ | 76090 | | 76090 | | 7609 | |
| | | | min(rpm)) | ID no. | | ID no. | | ID no. | |
| 20 | 4 | 0.15 | 20000 | 011 O. R. | | 021 | O. R. | 1 | - |
| 20 | 4 | 0.20 | 20000 | - | - | - | - | 111 | O. R. |
| 30 | 6 | 0.15 | 20000 | 031 | 0. R. | - | - | - | - |
| 30 | 9 | 0.20 | 20000 | - | - | - | - | 131 | O. R. |
| 40 | 11 | 0.20 | 18000 | 041 | 0. R. | 051 | O. R. | 141 | O. R. |
| 50 | 17 | 0.20 | 15000 | 061 | 0. R. | - | - | - | - |
| 50 | 10 | 0.30 | 15000 | - | - | - | - | 161 | O. R. |
| 70 | 18 | 0.30 | 15000 | 071 | 0. R. | 081 | O. R. | 171 | O. R. |
| 75 | 13 | 0.50 | 20000 | 091 | 0. R. | - | - | - | - |
| 75 | 12 | 0.50 | 20000 | - | - | - | - | 181 | O. R. |
| | | | | | | Unit p | orice, € | | |

Prod. group 792



Cylinder wire brushes with shank

nylon thread with silicon carbide, shaft ∅ 6 mm, max. speed 15,000 rpm

Application:

For deburring and cleaning with edge rounding on steel, aluminium and other non-ferrous metals and for machining of punched, lathed, milled and bored tool components.

Execution:

- Silicon carbide abrasive bristles
- Due to the effect of heat on the plastic brushes, the speed is limited to a cutting speed of 18 m/

Advantage:

- Optimal adaptation to irregular surfaces due to nylon fibres
- High elasticity without risk of breakage paired with a long service life

Technical Data:

- Max. rotation speed: 15000 U/min
- Number of pieces per packet: 5

| Head Ø (mm) | | | 50 | 70 | 50 | 70 |
|--------------|-----------------------------|-----------------------------|---------------------|---------------------|-------------------|-------------------|
| Width of hea | d (mm) | | 15 | 18 | 15 | 18 |
| Wire Ø (mm) | • | | 0.90 | 0.90 | 0.55 | 0.55 |
| | Edging material | | | | | |
| 76091 | Nylon with SiC grain 180 | Ident. No. Unit price, € | 011 O. R. | 021 O. R. | - | - |
| 76091 | Nylon with SiC grain 320 | Ident. No. Unit price. € | - | - | 031 O R | 041 O R |

Prod. group 792



Cylinder wire brushes for sanding block

Application:

No. 76092–76093: For removing rust and scale and for grinding.

No. 76094: For heavy demands and heavy-duty brush work, for removing rust and scale, for grinding and roughing, for removing varnish and for machining weld seams and stone.

Execution:

- Reducing rings for bore diameter included with no. 76092 081-201, no. 76093 081 and no. 76093 101.
- No. 76092-76093:
- Steel pipe body with pressed ring and outer flange
- With particularly dense material filling





No. 76092-76093

No. 76094

Power brushes and internal cleaning brushes



| Version | | | Corrugated | Corrugated | Corrugated | Corrugated | Corrugated | Corrugated | Braided | Braided | Braided |
|----------------------------------|--------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Head Ø (mm |) | | 80 | 100 | 150 | 178 | 200 | 150 | 100 | 150 | 200 |
| Width of sanding area (mm) | | 18 | 20 | 25 | 25 | 25 | 30 | 23 | 30 | 35 | |
| Wire Ø (mm) | | | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 |
| Bore Ø (mm) | Bore Ø (mm) | | 10 | 10 | 32 | 32 | 32 | 14 | 20 | 20 | 25.4 |
| Max. rotation speed (U/min(rpm)) | | n(rpm)) | 10000 | 8000 | 6000 | 6000 | 4500 | 6000 | 11000 | 9000 | 8500 |
| | Edging material | | | | | | | | | | |
| 76092 | Cast steel | ldent. No. Unit price, € | 081 O. R. | 101 O. R. | 151 O. R. | 176 O. R. | 201 O. R. | - | - | - | - |
| 76093 | Stainless steel | Ident. No. Unit price, € | 081 O. R. | 101 O. R. | - | 176 O. R. | 201 O. R. | 151 O. R. | - | - | - |
| 76094 | Steel | Ident. No. Unit price, € | - | - | - | - | - | - | 101 O. R. | 151 O. R. | 201 O. R. |

Prod. group 792



Wire end brushes

made of crimped wire, shaft Ø 6 mm

Application:

For removing burrs, rust, slag, scale, rubber residues, incineration residues and other impurities from places that are difficult to access and from inner surfaces.

Technical Data:

- Shaft diameter: 6 mm
- Number of pieces per packet: 5



| Head Ø (mm) | | | 10 | 10 | 10 | 10 | 17 | 25 | 30 |
|----------------------------------|--------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Length (mm) | | | 40 | 100 | 40 | 100 | 45 | 50 | 45 |
| Length of bristles (mm) | | | 20 | 20 | 20 | 20 | 25 | 25 | 25 |
| Wire Ø (mm) | | | 0.30 | 0.30 | 0.50 | 0.30 | 0.50 | 0.50 | 0.50 |
| Max. rotation speed (U/min(rpm)) | | 20000 | 9000 | 20000 | 20000 | 18000 | 18000 | 15000 | |
| | Edging material | | | | | | | | |
| 76095 | Stainless steel | Ident. No. Unit price, € | 101 O. R. | 111 O. R. | - | - | - | - | - |
| 76095 | Steel | Ident. No. Unit price, € | - | - | 201 O. R. | 211 O. R. | 221 O. R. | 231 O. R. | 241 O. R. |

Prod. group 792



Wire end brushes

with plaited wire, shaft Ø 6 mm, max. speed 20,000 rpm

Application:

For precise machining in hard-to-reach places and on inner surfaces, also particularly suitable for cleaning the inside of cylindrical bores.

Execution:

 Due to the centrifugal force produced, the brush opens or closes as the working speed changes

Advantage:

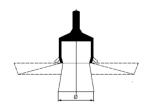
 $\hfill \blacksquare$ High flexibility and high cleaning efficiency

- Length: 44 mm
- Shaft diameter: 6 mm
- Length of bristles: 29 mm
- Max. rotation speed: 20000 U/min
- Number of pieces per packet: 5

| Head Ø (mm) | | | 20 | 23 | 30 |
|-------------|-----------------|-----------------------------|---------------------|---------------------|---------------------|
| Wire Ø (mm) | | | 0.25 | 0.35 | 0.35 |
| | Edging material | | | | |
| 76096 | Steel | ldent. No. Unit price, € | 111 O. R. | 121 O. R. | 131 O. R. |
| 76096 | Stainless steel | ldent. No. Unit price, € | 011 O. R. | 021 O. R. | 031 O. R. |









Bristle head brushes

With corrugated stranded wire, shank diameter 6 mm

Application:

For roughening, deburring, stripping paint or removing burrs, rust and combustion residues in hard-to-reach places in steel machining.

Execution:

- 3-4 brass-plated steel wires with single wire diameters of 0.2 mm twisted into rope construction
- Spring hard and tough



Not suitable for VA machining.

Technical Data:

- Shaft diameter: 6 mmWire diameter: 0.20 mm
- Number of pieces per packet: 5



| Head Ø (mm) | | | 11 | 16 | 22 | 28 |
|----------------|--------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|
| Length (mm) | | | 40 | 45 | 45 | 45 |
| Length of bris | tles (mm) | | 20 | 25 | 25 | 30 |
| Max. rotation | speed (U/min(rpi | m)) | 20000 | 20000 | 18000 | 15000 |
| | Edging material | | | | | |
| 76097 | Steel | Ident. No. Unit price, € | 121 O. R. | 171 O. R. | 241 O. R. | 301 O. R. |

Prod. group 792



Advantages of 3M Scotch-Brite™ Bristle products

Bristle products are flexible, high-performance brushes impregnated with **ceramic Cubitron abrasive grains**. They have exceptionally long service lives. They are especially suited to cleaning, deburring and paint stripping.

Thanks to their unique cast-in-one-piece design, individual components cannot work loose during application as can happen when using wire brushes. This improves occupational safety. Furthermore, Scotch-Brite Bristle products do not clog which ensures consistent performance throughout their service life. Thanks to their high level of flexibility, Bristle products adapt to the shapes and contours of workpieces. This enables you to produce a uniform finish, even on very profiled surfaces.





Scotch-Brite™ BB-ZB bristle radial grinding brush

With Cubitron™ ceramic abrasive grain, diameter 150 mm

Application:

For cleaning, removing paint and deburring on virtually all materials, especially contoured surfaces - ideal for use on bench grinder, straight grinder or on flexible shafts.

Execution:

- Brush consists of 8 separable segments
- Flange with 4 reducers from 25.4 to 13 mm
- Please observe the direction of rotation!
- For use only with clamping mandrel no. 76098 001

Advantage:

- With curved bristles, ideal for working on profiled surfaces
- Very long service life
- Flexible and adaptable

Technical Data:

- Type: Radial grinding brush
- Type description: Scotch-Brite BB-ZB type C
- Head diameter: 150 mm
- Length of bristles: 38 mm
- Max. rotation speed: 6000 U/min
- Number of pieces per packet: 1

| Grain size (µm) | | 80 | 220 | |
|-----------------|-----------------------------|---------------------|---------------------|--|
| Colour | olour | | Red | |
| 76098 | Ident. No. Unit price, € | 080 O. R. | 090 O. R. | |

Prod. group 6DM



Ident. No. 080



Ident. No. 090





Scotch-Brite™ MN-AC clamping mandrel

For bristle brushes and Scotch-Brite™ coarse cleaning discs

Application:

For clamping radial bristle brushes BB-ZB type C, in diameters 150 mm, 193 mm and 200 mm and Scotch-Brite™ coarse cleaning discs XT-DC, CG-DC and BF-DC (see no. 760985 210-260).

76098... Ident. No. Unit price, € O. R.

Prod. group 6DM

Technical Data:

- Shaft diameter: 6 mm
- Suitable for inner diameter: 12.7 mm
- Max. clamping width: 19.0 mm
- Number of pieces per packet: 1





Scotch-Brite™ non-woven products

Fineness comparison

Compared with FEPA grain sizes.

Finish comparison (purely optical comparison) with FEPA grain sizes

| 50 | 80 | 100 | 120 | 150 | 180 | 220 | 240 | 280 | 320 | 360 | 400 | 500 | 600 | 800 | 1000 |
|--------------|--------------|-----|------|-----|-----|------|-----|-----|------|------|------------|-------|------|-------|------|
| 50 | 80 | 100 | 120 | 150 | 180 | 220 | 240 | 280 | 320 | 300 | 400 | 500 | 000 | 800 | 1000 |
| Extra | coarse | | | | | | | | | | | | | | |
| Coarse SD | Coarse HD | | | | | | | | | | | | | | |
| | | Coa | arse | | | | | | | | | | | | |
| | | | | | Мес | lium | | | | | | | | | |
| | | | | | | | | Fi | ne | | | | | | |
| | | | | | | | | | Very | fine | | | | | |
| | | | | | | | | | | | Super fine | | | | |
| | | | | | | | | | | | | Ultra | fine | | |
| | | | | | | | | | | | | | | Extra | fine |



Scotch-Brite™ high-performance coarse cleaning discs

silicon carbide, extra coarse

Application:

For cleaning welding seams (discolouration), for removing dirt, paint residue and oxide layers and for removing heavy surface soiling and surface coatings.

Execution:

- Ident. No. 210, 230: Aggressive disc for heavy-duty applications
- Ident. No. 210-220:
- With fibre glass backing 22.23 mm
- Can be used directly on angle grinder without additional support plate
- Ident. No. 220, 250: Soft design
- Ident. No. 230-250:
- With shank holder

 For use on straight grinders or flexible shafts with clamping mandrel no. 76098 001 and 002

Advantage:

- Safer and more effective than conventional wire brushes as no individual parts can come loose
- Solid edged, aggressive and free from corrosion-inducing metals
- Open structure, disc does not clog
- No smearing on stainless steel
- Ident. No. 210, 230: High edge resistance for improved durability
- Ident. No. 220, 250: High flexibility for difficult applications, for a smooth and even finish









Ident. No. 210

Ident. No. 220

Ident. No. 230

Ident. No. 250

| | | | | | | | shank Ider | | n fibre ass cking |
|------------------|--------|---------------|-------------|---------------------|------------------|-------|---------------|---------|-------------------------|
| Type description | Colour | Washer Ø (mm) | Bore Ø (mm) | Max. rotation speed | Number of pieces | 7609 | | 7609 | |
| | | | | (U/min(rpm)) | per packet (PCS) | ID no | | ID no. | |
| CG-DC | Blue | 100 | 13.00 | 6000 | 2 | 250 | O. R. | - | - |
| CG-RD | Blue | 115 | 22.23 | 11000 | 10 | - | - | 220 | O. R. |
| XT-DC | Purple | 100 | 13.00 | 6000 | 2 | 230 | O. R. | - | - |
| XT-RD | Purple | 115 | 22.23 | 11000 | 10 | - | - | 210 | O. R. |
| | | | | | | | Unit p | rice, € | |

Prod. group 6DM

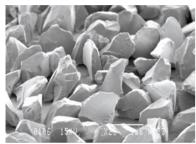


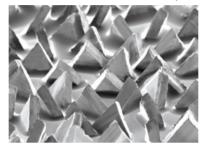
What are 3M Cubitron® II abrasives?

3M Cubitron® II is a high-performance abrasive mineral, characterised by Benefits of Cubitron® II: its exceptional cutting power and long service life. It makes machining processes significantly more economical, which results in enormous cost savings. The innovative cutting geometry means that the abrasive grain slides through the material, for a more comfortable and ergonomic process requiring less pressure from the operator.

The individual ceramic grains of Cubitron® II abrasives are precisely formed triangles, each of which is identical in size and arranged vertically. The grinding tips of these triangles break during the grinding process, creating new sharp edges. This results in an incredibly sharp grinding surface. The material is processed cleanly by these new cutting edges. This results in a faster, cooler cut and an extended service life for the abrasive material.

- High sharpness thanks to precision-formed ceramic grains
- Very long service life and fast cutting
- Cool cut: Heat and chips are diverted away/dissipated and clogging is prevented
- Comfortable working
- Less formation of dust
- Lower working pressure
- Application:
- Welding seam preparation, finishing of cast and flame-cut parts and general grinding. The materials processed are usually metals that are difficult to machine, such as stainless steel, chrome and titanium.











Cubitron™ II fibre discs

Ceramic grain, full synthetic resin bond, half-open coating - precision-formed ceramic grains for maximum sharpness

Application:

For sharp grinding, especially suitable for general metal working such as weld seam preparation, machining of cast and flame-cut parts and polishing.

Execution:

- Can be used in conjunction with a support plate no. 76206
- Backing produced from very robust, hornlike vulcanised fibre

Advantage:

- · High degree of sharpness owing to precisionformed ceramic grains
- Very long service lives and fast cutting
- Pleasant work owing to low dust formation and low contact pressure

Technical Data:

- Washer diameter: 125 mm ■ Bore diameter: 22.23 mm
- Number of pieces per packet: 25



Version 982C

| | Type description | Grid size | | |
|-------|------------------|-----------|---------------|-------|
| 76206 | 982C | 36+ | Ident. No. | 136 |
| 70200 | 982C | C 30+ | Unit price, € | O. R. |
| 76206 | 982C | 60+ | Ident. No. | 160 |
| 70200 | 9020 | 00+ | Unit price, € | O. R. |
| 74204 | 0030 | 001 | Ident. No. | 180 |
| 76206 | 982C | 80+ | Unit price, € | O. R. |

Prod. group 6DM





Support plate for Cubitron™ II fibre discs

Corrugated version

Application:

Can be used in combination with Cubitron™ II fibre discs 982C and 987C

Advantage:

during grinding

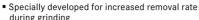
Technical Data:

- Suitable for disc diameter: 125 mm
- Connection thread: M14
- Max. rotation speed: 12000 U/min
- Number of pieces per packet: 1





Example application



| | Version | | |
|-----------------|----------|---------------|-------|
| 76206 | Serrated | ldent. No. | 910 |
| 70200 | | Unit price, € | O. R. |
| Prod. group 6DM | | | |



Table of applications for abrasive discs and abrasive rollers

| Application | Grain type | Support | Scatter type | Special features | Manufacturer designation | No. |
|---|---|--|---|---|--------------------------|-----------------------------|
| Wood, paint, lacquer, filler and metal | Corundum | Paper | Half-open | Flexible finishing paper for a wide range of uses in woodworking. | Klingspor PL31 | 69260 090-120 and 160 |
| Wood, paint, lacquer, filler and plastic | Corundum | Paper | Half-open | High-quality abrasive paper, especially suitable for processing paints, lacquer and filler | Klingspor PS33 | 69260 130-150 |
| Colour, lacquer, filler, glass, stone, plastic and metal | Silicon carbide | Paper | Sealed High-quality, very flexible, water-resistant sandpaper, for processing paint, lacquer and filler, mainly used in car repair and painting applications | | Klingspor PS11 | 69261 060-920 |
| Metal | Corundum | Cotton fabric, lightweight | Sealed | Universal product for grinding surfaces in metal processing | Klingspor KL371 | 69270 040-400 |
| Wood, metal, stainless steel and non-ferrous metals | Corundum | Cotton fabric, lightweight and highly flexible | Sealed | Highly flexible universal product for the metal-processing industry | Klingspor KL385 | 69272 040-360 |
| Wood, metal, stainless steel and plastics | netal, stainless Corundum lightweight and highly Sealed for widespread use for the metal-pro- | | Klingspor KL361 and | 69275 047-675 | | |
| Wood, metal, stainless steel and non-ferrous metals | Corundum | Cotton fabric, lightweight and highly flexible | Sealed | High-quality, highly flexible abrasive cloth for versatile applications in the metal-processing industry. Very good tear behaviour — even narrow 2 mm strips can be easily separated. | VSM KK114F | 69276 040-440 |



Finishing paper and sandpaper

fine and special corundum, half open coating, sheet size 230 x 280 mm

Application:

Ident. No. 090-120, 160: For a wide range of uses in the machining of wood, paint, lacquer, spreader and metal

Ident. No. 130-150: Ideal for machining of wood, paint, lacquer, spreader, plastic and metal.

- Ident. No. 090-120, 160: Glue-binding, orange
- Ident. No. 130-150:
- Synthetic resin bonding, beige

■ High-quality and flexible

Advantage:

- Ident. No. 090-120, 160: Low-cost universal product for a multitude of uses, especially in painting and decorating
- Ident. No. 130–150: High sanding rate and service life

Technical Data:

■ Number of pieces per packet: 50

| Type desc | ription | | PL 31 | PS 33 | PS 33 | PS 33 | PL 31 | PL 31 | PL 31 | PL 31 |
|------------|-----------------------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Grain size | | | 60 | 80 | 100 | 120 | 150 | 180 | 220 | 280 |
| | Material of abrasive medium | | | | | | | | | |
| 69260 | Fused aluminium oxide | Ident. No. Unit price, € | 160 O. R. | - | - | - | 120 O. R. | 110 O. R. | 100 O. R. | 090 O. R. |
| 69260 | Special aluminium oxide | Ident. No. Unit price, € | | 150 O. R. | 140 O. R. | 130 O. R. | - | - | - | - |

Prod. group 6DB



Ident. No. 090-120, 160 Finishing paper PL 31



Ident. No. 130-150 Sandpaper PS 33



Waterproof sandpaper PS 11

Sheet size 230 x 280 mm

Application:

For machining of paint, lacquer, spreader and filler, mainly used in automotive repair and painting applications.

Evecution

 With sharp-edged silicon grain on a highly flexible, easily wettable latex backing

Technical Data:

- Type description: PS 11
- Number of pieces per packet: 50



Sandpaper PS 11

| Grain size | | | 60 | 80 | 100 | 120 | 150 | 180 | 220 | 280 | 320 | 360 | 400 | 500 | 600 | 800 | 1000 | 1200 |
|------------|--|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | Material of abra- sive medium | | | | | | | | | | | | | | | | | |
| 69261 | Silicon carbide | ldent. No. Unit price, € | 060 O. R. | 080 O. R. | 100 O. R. | 120 O. R. | 150 O. R. | 180 O. R. | 220 O. R. | 280 O. R. | 320 O. R. | 360 O. R. | 400 O. R. | 500 O. R. | 600 O. R. | 800 O. R. | 910 O. R. | 920 O. R. |

Prod. group 6DB



Abrasive cloth, single sheets

corundum, closed coating, sheet size 230 x 280 mm

Application:

No. 69270: For grinding surfaces in metalworking.
No. 69272: Suitable for a wide range of uses in the metalworking industry.

Execution:

- No. 69270:
- Glue-binding, blue
- Light but robust X-fabric backing
- No. 69272:
 - Synthetic resin boding, brown

High-quality abrasive cloth and very flexible cotton backing

Advantage:

- No. 69270: For universal manual and power tool sanding
- No. 69272:
- Can be easily torn to the desired length
- Also suitable for stainless steel.

Technical Data:

■ Number of pieces per packet: 50



No. 69270 Abrasive cloth KL 371



No. 69272 Abrasive cloth KL 385

| | | | | | | | | ADI asive ciotii i | KL 000 |
|------------|-----------------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Type desc | | | KL 371 | KL 385 |
| Grain size | | | 60 | 80 | 100 | 120 | 150 | 180 | 40 |
| | Material of abrasive medium | | | | | | | | |
| 69270 | Corundum | Ident. No. Unit price, € | 060 O. R. | 080 O. R. | 100 O. R. | 120 O. R. | 150 O. R. | 180 O. R. | - |
| 69272 | Corundum | Ident. No. Unit price, € | - | - | - | - | - | - | 040 O. R. |
| Type desc | ription | | KL 385 |
| Grain size | | | 50 | 60 | 80 | 100 | 120 | 150 | 180 |
| | Material of abrasive medium | | | | | | | | |
| 69270 | Corundum | Ident. No. Unit price, € | - | - | - | - | - | - | - |
| 69272 | Corundum | Ident. No. Unit price, € | 050 O. R. | 060 O. R. | 080 O. R. | 100 O. R. | 120 O. R. | 150 O. R. | 180 O. R. |
| Type desc | ription | | KL 371 | KL 371 | KL 371 | KL 371 | KL 385 | KL 385 | KL 385 |
| Grain size | | | 220 | 240 | 280 | 400 | 220 | 240 | 280 |
| | Material of abrasive medium | | | | | | | | |
| 69270 | Corundum | Ident. No. Unit price, € | 220 O. R. | 240 O. R. | 280 O. R. | 400 O. R. | - | - | - |
| 69272 | Corundum | Ident. No. Unit price, € | - | - | - | - | 220 O. R. | 240 O. R. | 280 O. R. |
| Type desc | rintion | | KL 385 | KL 385 |] | | | | |
| Grain size | | | 320 | 360 | | | | | |
| | | 1 | 520 | - 550 | 1 | | | | |

69272... Co

69270...

Material of abrasive medium

Corundum

Corundum

Ident. No.

Unit price, € Ident. No.

Unit price, €

0. R

0. R



Abrasive cloth KL 361, roll stock

Application:

For wide-ranging uses in all areas of metalworking, also suitable for stainless steel.

Advantage:

High-quality abrasive cloth with highly flexible backing

■ Can be easily torn to the desired length

Technical Data:

- Number of pieces per packet: 1
- Length of roll: 50 m



Abrasive cloth KL 361

| Roll width (mn | n) | | 25 | 30 | 40 | 50 |
|----------------|------------|---------------|-------|-------|-------|-------|
| | Grain size | | | | | |
| 69275 | 100 | Ident. No. | 460 | 465 | 470 | 475 |
| 092/5 | 100 | Unit price, € | 0. R. | O. R. | 0. R. | 0. R. |
| 69275 | 120 | Ident. No. | 410 | 415 | 420 | 425 |
| 092/5 | 120 | Unit price, € | 0. R. | O. R. | 0. R. | 0. R. |
| 69275 | 180 | Ident. No. | 310 | 315 | 320 | 325 |
| 092/5 | 180 | Unit price, € | 0. R. | O. R. | 0. R. | 0. R. |
| 69275 | 240 | Ident. No. | 210 | 215 | 220 | 225 |
| 092/5 | 240 | Unit price, € | 0. R. | O. R. | 0. R. | 0. R. |
| 69275 | 320 | Ident. No. | 110 | 115 | 120 | 125 |
| 072/3 | 320 | Unit price, € | O. R. | O. R. | O. R. | 0. R. |

Prod. group 6DB



Sanding belt roll cartridge

fitted and unfitted

Application:

For sorted storage and metered supply of sanding belt and abrasive cloth.

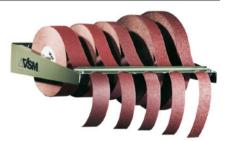
Execution:

- Robust magazine (with a hammered enamel finish)
- Complete with tear-off device and fastening material
- Ident. No. 100: Equipped with 5 rolls (brown), grain sizes 40, 60, 100, 180, 360 of 50 m length and 40 mm width

■ Ident. No. 200: Empty, for 5 rolls of 25 to 50 mm width and max. 50 m length

Advantage:

- The right sanding belt or abrasive cloth always kept close to hand
- Ensures economical use
- Enables fresh supplies to be provided in good time



Ident. No. 100

| 69281 | Equipped | Ident. No. Unit price, € | 100 O. R. |
|-------|----------|-----------------------------|---------------------|
| 69281 | Empty | Ident. No. | 200 |
| 09201 | Empty | Unit price, € | O. R. |
| | | | |

Prod. group 656



Abrasive cloth in tear-off box

With integrated tear-off blade

Application:

For alloyed and unalloyed steels, chrome and chrome-nickel steel, brass and bronze, wood, paint, lacquer and plastic.

Advantage:

■ Very long service life

Technical Data:

- Length of roll: 50 m
- Colour: Brown



High flexibility and thread-precise tear resistance

| Roll width (mm) | | | 25 | 40 |
|-----------------|------------|---------------|-------|-------|
| | Grain size | | | |
| 69276 | 60 | Ident. No. | 406 | 060 |
| 09270 | 80 | Unit price, € | O. R. | O. R. |
| 69276 | 80 | Ident. No. | 408 | 080 |
| 09270 | 80 | Unit price, € | O. R. | O. R. |
| 69276 | 100 | Ident. No. | 410 | 100 |
| 09270 | 100 | Unit price, € | O. R. | O. R. |
| 69276 | 120 | Ident. No. | 412 | 120 |
| 09270 | 120 | Unit price, € | O. R. | O. R. |
| 69276 | 150 | Ident. No. | 415 | 150 |
| 09270 | 130 | Unit price, € | O. R. | 0. R. |
| 69276 | 180 | Ident. No. | 418 | 180 |
| 07270 | 180 | Unit price, € | O. R. | O. R. |
| 69276 | 240 | Ident. No. | 424 | 240 |
| 09270 | 240 | Unit price, € | O. R. | O. R. |
| 69276 | 320 | Ident. No. | 432 | 320 |
| 072/0 | 320 | Unit price, € | O. R. | 0. R. |
| 69276 | 400 | Ident. No. | 440 | 400 |
| 072/0 | 400 | Unit price, € | O. R. | 0. R. |

Cork sanding block

Application:

To avoid injuries due to wood splinters when sanding by hand.

| Width (mm) | | 60 |
|-----------------|---------------|-------|
| Length (mm) | | 120 |
| Height (mm) | 35 | |
| 40274 | Ident. No. | 010 |
| 69274 | Unit price, € | O. R. |
| Prod. group 694 | | |



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Non-woven abrasive flap disc SMT 800

Fibre glass backing, synthetic resin bonding, sloped design

Application:

For finishing, depending on fineness also suitable for cleaning and light deburring work and for processing of TIG weld seams on stainless steel.

Technical Data:

Washer diameter: 125 mm
Bore diameter: 22.23 mm
Max. rotation speed: 12200 U/min
Number of pieces per packet: 5

| Surface structure | | Rough | Medium | Very fine |
|-------------------|---------------|-------|--------|-----------|
| 76190 | Ident. No. | 025 | 030 | 035 |
| 70190 | Unit price, € | O. R. | O. R. | O. R. |





3M

Scotch-Brite™ convolutely wound compact discs - for deburring and finishing

from convolutely wound Scotch-Brite™ fibre fleece, with incorporated silicon carbide

Application:

Ident. No. 015–020: For deburring of steel, aluminium or cast parts, for rounding edges on stainless steel parts.

Ident. No. 030–040: For finishing on nearly all metals or for removal of light draw marks on stainless steel profiles.

Execution:

- Ident. No. 015-020: Can be profiled, red marking
- Ident. No. 030-040: Can be profiled, blue marking

Advantage:

- Ident. No. 015-020: Creates smooth, round corners without secondary grades with long service life
- Ident. No. 030-040: Does not produce chatter marks, achieves distinctive streak effect

- Washer diameter: 152 mm
 Bore diameter: 25.4 mm
- Washer thickness: 25.4 mm
- Max. rotation speed: 6000 U/min
- Number of pieces per packet: 1

| Type description | | DB-WL | DB-WL | FS-WL | FS-WL |
|-------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|
| Hardness | | 7 (medium hard) | 9 (extremely hard) | | |
| Surface structure | | Fine | Fine | Medium | Fine |
| 69473 | Ident. No. Unit price, € | 015 O. R. | 020 O. R. | 030 O. R. | 040 O. R. |





Ident. No. 015-020









for smoothing, matting, roughing, removal of dirt, corrosion and other impurities

Application:

Ident. No. 105-110: For smoothing, dulling, roughening, de-greasing and cleaning surfaces, light deburring and removal of dirt and corrosion.

Accessories: Hand block with integrated barbed hooks no. 69296 090

Advantage:

- Smooth cutting with high flexibility
- Long service life and optimal grinding results thanks to the uniform fibre structure

Technical Data:

■ Type description: Abraflex



Ident. No. 005-010

Ident. No. 105-110 Fleece abrasive roller

| Material of abras | sive medium | | | Aluminium oxide | Silicon carbide | Aluminium oxide | Silicon carbide |
|-------------------|---------------------|----------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|
| Grid size | | | | 280 | 1200 | 280 | 1200 |
| Surface structur | re | | | Rough | Fine | Rough | Fine |
| Colour | | | | Blue | Grey | Blue | Grey |
| Number of piece | es per packet (PCS) | | | 10 | 10 | 1 | 1 |
| | | Length x width | | | | | |
| 69297 | Hand pads | 210 x 150 mm | ldent. No. Unit price, € | 005 O. R. | 010 O. R. | - | - |
| 69297 | Abrasive roll | 10000 x 115 mm | Ident. No. Unit price, € | - | - | 105 O. R. | 110 O. R. |

Prod. group 792



Scotch-Brite™ abrasive fleece

for smoothing, matting, roughing, removal of dirt, corrosion and other impurities

Application:

Ident. No. 205-210: For smoothing, dulling, roughening, de-greasing and cleaning surfaces, light deburring and removal of dirt and corrosion.







Ident. No. 205-210 Fleece abrasive roller

| Type description | | | | CP-HP | CF-HP | CF-HP CF-HP | | CF-RL |
|-------------------|--|----------------|-----------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|
| Material of abras | sive medium | | | Aluminium oxide | Silicon carbide | Silicon carbide | Aluminium oxide | Silicon carbide |
| Grid size | | | | 180-280 | 320-360 | 500 | 320-360 | 500 |
| Surface structur | е | | | Medium | Very fine | Very fine | Very fine | Very fine |
| Colour | | | | Brown | Red | Grey | Red | Grey |
| Number of piece | lumber of pieces per packet (PCS) | | | 10 | 10 | 10 | 1 | 1 |
| | | Length x width | | | | | | |
| 69296 | Hand pads | 224 x 158 mm | Ident. No. Unit price, € | | 010 O. R. | 015 O. R. | - | - |
| 69296 | Abrasive roll 10000 v 100 mm Ident. No | | Ident. No. Unit price, € | | - | - | 205 O. R. | 210 O. R. |

Prod. group 6DM

| Accessories for | | 69296 005 | 69296 010 | 69296 015 | 69296 205 | 69296 210 |
|--------------------------|---------------|-----------|-----------|-----------|-----------|-----------|
| 69296 Scotch-Brite™ hand | Ident. No. | 090 | 090 | 090 | 090 | 090 |
| block PH-AC | Unit price, € | O. R. |



Mirlon abrasive fleece

for smoothing, matting, roughing, degreasing, removal of dirt, corrosion and other impurities

Advantage:

- Thanks to the three-dimensional structure, it is ideal for profiles and curved surfaces
- Cost-effective alternative to steel wool, grinding fabric and sandpaper
- For wet and dry grinding

| Material of ab | Material of abrasive medium | | | | Aluminium | Silicon | Aluminium | Aluminium | Silicon | Silicon |
|----------------|-----------------------------------|-------------------|-----------------------------|-------|-----------|-----------|---------------------|-----------|---------------------|---------------------|
| | | | | oxide | oxide | carbide | oxide | oxide | carbide | carbide |
| Grid size | | | | 320 | 360 | 1500 | 320 | 360 | 1500 | 2000 |
| Surface struct | ture | | | Fine | Very fine | Very fine | Fine | Very fine | Very fine | Very fine |
| Colour | | | | Green | Red | Dark grey | Green | Red | Dark grey | Grey |
| Number of pie | Number of pieces per packet (PCS) | | | 20 | 20 | 20 | 1 | 1 | 1 | 1 |
| | | Length x width | | | | | | | | |
| 69294 | Hand pads | 229 x 152 | Ident. No. | 010 | 020 | 030 | - | - | - | - |
| | | mm | Price/pack, € | 0. R. | O. R. | O. R. | 110 | 120 | 120 | 140 |
| 69294 | Abrasive roll | 10000 x 115 mm | ldent. No. Unit price, € | - | - | - | 110 O. R. | 0. R. | 130 O. R. | 140 O. R. |

Prod. group 690



Scotch-Brite™ abrasive fleece

For smoothing, dulling, roughening, de-greasing and cleaning surfaces, light deburring and removal of dirt and corrosion.

Execution:

- In handy tear-off roll
- Single pad size 115 x 150 mm

Advantage:

- Smooth cutting, flexible and durable abrasive fleece
- Pre-cut roll with economically sized hand pads (1 roll = 35 pads)

Technical Data:

- Type description: CF-SR
- Material of abrasive medium: Aluminium oxide
- Surface structure: Very fine
- Number of pieces per packet: 1



Example application: Abrasive fleece roller with wall bracket for practical removal

| Grid size | | 320 | 800 | | | | | |
|-----------------|---------------|---------------|--------|--|--|--|--|--|
| Colour | | Purple violet | Copper | | | | | |
| 69296 | Ident. No. | 105 | 110 | | | | | |
| 09290 | Unit price, € | O. R. | O. R. | | | | | |
| Prod. group 6DM | | | | | | | | |

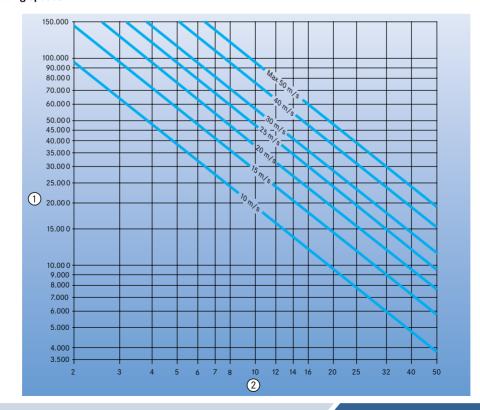


Grinding points

All PFERD sanding tips are approved for a maximum peripheral speed of 50 m/s. This must be strictly adhered to prevent the shaft bending during use. Regardless of the length of the shaft, the clamping length of the shaft must be at least 10 mm.

The cutting speeds are indicated by blue diagonal lines in the diagram. The vertical corresponding to the tool diameter meets the specified cutting speed (diagonal). From there, the rotation speeds (in rpm) of sanding tips and machine can be read off horizontally from the left edge.

Recommended cutting speeds:







Grinding points, hardness O - used for general steel

pink corundum abrasive, ceramic bond

Application

Ideal for use on edges and for deburring work on steel structural and cast steel parts as well as for removing burrs and for grinding of chamfers for preparation of weld seams

Advantage:

 Long service life and large machining volume due to wear-resistant grain and hard bonding ■ Also suitable for use on low-speed drive motors

Technical Data:

Shaft diameter: 3 mmShaft length: 30 mm

Number of pieces per packet: 10









Ident. No. 090

Ident. No. 060-070

Ident. No. 075-085

Ident. No. 005-055

| Form | Head Ø (mm) | Grain size | Max. rotation speed (U/ min(rpm)) | Type description | 76016 ID no. |
|-------------|-------------|------------|--------------------------------------|------------------|---------------------|
| Cone | 10 | 46 | 95400 | KE 1010 3 | 090 O. R. |
| Ball shape | 5 | 100 | 190900 | KU 05 3 | 060 O. R. |
| Ball shape | 8 | 80 | 116200 | KU 08 3 | 065 O. R. |
| Ball shape | 10 | 46 | 83300 | KU 10 3 | 070 O. R. |
| Ogive shape | 3 | 100 | 252000 | SP 0306 3 | 075 O. R. |
| Ogive shape | 5 | 100 | 149500 | SP 0510 3 | 080 O. R. |
| Ogive shape | 8 | 80 | 72800 | SP 0816 3 | 085 O. R. |
| Cylindrical | 2 | 100 | 201800 | ZY 0205 3 | 005 O. R. |
| Cylindrical | 3 | 100 | 206100 | ZY 0306 3 | 010 O. R. |
| Cylindrical | 4 | 100 | 175100 | ZY 0408 3 | 015 O. R. |
| Cylindrical | 5 | 100 | 130700 | ZY 0510 3 | 020 O. R. |
| Cylindrical | 6 | 100 | 93600 | ZY 0613 3 | 025 O. R. |
| Cylindrical | 8 | 46 | 87600 | ZY 0810 3 | 030 O. R. |
| Cylindrical | 8 | 46 | 61000 | ZY 0816 3 | 035 O. R. |
| Cylindrical | 10 | 46 | 58400 | ZY 1013 3 | 040 O. R. |
| Cylindrical | 13 | 60 | 73400 | ZY 1303 3 | 045 O. R. |
| Cylindrical | 13 | 46 | 45300 | ZY 1313 3 | 050 O. R. |
| Cylindrical | 16 | 46 | 59600 | ZY 1604 3 | 055 O. R. |
| • | - | | | | Unit price, € |





Grinding points, hardness O - used for general steel

pink corundum abrasive, ceramic bond

Ideal for use on edges and for deburring work on steel structural and cast steel parts as well as for removing burrs and for grinding of chamfers for preparation

Advantage:

• Long service life and large machining volume due to wear-resistant grain and hard bonding

■ Also suitable for use on low-speed drive motors

Technical Data:

■ Shaft diameter: 6 mm ■ Shaft length: 40 mm

■ Number of pieces per packet: 10







Ident. No. 360-370

Ident. No. 345-355

Ident. No. 325-340

Ident. No. 205-320

| Form | Head Ø (mm) | Grain size | Max. rotation speed (U/ | Type description | 7601 |
|-------------|-------------|------------|-------------------------|------------------|-------|
| | | | min(rpm)) | | ID no |
| Cone | 10 | 46 | 95400 | KE 1025 6 | 360 |
| Cone | 20 | 30 | 47700 | KE 2032 6 | 365 |
| Cone | 20 | 30 | 47700 | KE 20 40 6 | 370 |
| Ball shape | 13 | 46 | 73400 | KU 13 6 | 325 |
| Ball shape | 16 | 30 | 59600 | KU 16 6 | 330 |
| Ball shape | 20 | 30 | 47700 | KU 20 6 | 335 |
| Ball shape | 32 | 24 | 29800 | KU 32 6 | 340 |
| Ogive shape | 3 | 100 | 255500 | SP 0306 6 | 345 |
| Ogive shape | 5 | 100 | 190900 | SP 0510 6 | 350 |
| Ogive shape | 8 | 80 | 119300 | SP 0816 6 | 355 |
| Cylindrical | 3 | 100 | 206100 | ZY 0306 6 | 205 |
| Cylindrical | 4 | 100 | 177400 | ZY 0408 6 | 210 |
| Cylindrical | 5 | 100 | 157800 | ZY 0510 6 | 215 |
| Cylindrical | 6 | 100 | 131500 | ZY 0613 6 | 220 |
| Cylindrical | 8 | 80 | 119300 | ZY 0810 6 | 225 |
| Cylindrical | 8 | 80 | 119300 | ZY 0816 6 | 230 |
| Cylindrical | 10 | 46 | 95400 | ZY 1013 6 | 235 |
| Cylindrical | 10 | 46 | 95400 | ZY 1020 6 | 240 |
| Cylindrical | 10 | 46 | 83200 | ZY 1032 6 | 245 |
| Cylindrical | 13 | 46 | 73400 | ZY 1313 6 | 250 |
| Cylindrical | 13 | 46 | 73400 | ZY 1325 6 | 255 |
| Cylindrical | 13 | 46 | 42400 | ZY 1340 6 | 260 |
| Cylindrical | 16 | 30 | 59600 | ZY 1610 6 | 265 |
| Cylindrical | 16 | 30 | 59600 | ZY 1620 6 | 270 |
| Cylindrical | 16 | 30 | 51200 | ZY 1632 6 | 275 |
| Cylindrical | 16 | 30 | 40500 | ZY 1640 6 | 280 |
| Cylindrical | 20 | 46 | 47700 | ZY 2006 6 | 285 |
| Cylindrical | 20 | 30 | 47700 | ZY 2025 6 | 290 |
| Cylindrical | 20 | 30 | 32400 | ZY 2040 6 | 295 |
| Cylindrical | 25 | 46 | 38100 | ZY 2506 6 | 300 |
| Cylindrical | 25 | 30 | 32900 | ZY 2532 6 | 305 |
| Cylindrical | 32 | 24 | 29800 | ZY 3220 6 | 310 |
| Cylindrical | 40 | 30 | 23800 | ZY 4010 6 | 315 |
| Cylindrical | 40 | 24 | 23800 | ZY 4020 6 | 320 |
| 3, | | | | 2: :020 0 | Unit |

Prod. group 795



Grinding point sets, hardness O – used for general steel

pink corundum abrasive, ceramic bond

Application:

Ident. No. 010: For universal use, dimensionally stable and resistant edges, at a recommended cutting speed of 25-40 m/s.

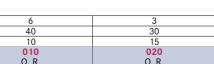
Ident. No. 020: Ideal for fine sanding work.

scope of supply and services:

Ident. No. 010: 1 piece each: ZY 1013, ZY 1320, ZY 2006, ZY 2013, ZY 2025, KU 16, WR 2025, KE 2032, SP 1320, KE 2020

Ident. No. 020: 2 piece each: ZY 0510, ZY 0810, ZY 1604. 1 piece each: ZY 0408, ZY 0613, ZY 0802, ZY 1013, ZY 1303, WR 0510, KU 05, SP 0306, SP 0816

| Shaft Ø (mm) | | 6 | 3 |
|-------------------------------|---------------|-------|-------|
| Shaft length (mm) | | 40 | 30 |
| Number of pieces in assortmen | t/set (PCS) | 10 | 15 |
| 76017 | Ident. No. | 010 | 020 |
| 76017 | Unit price, € | O. R. | O. R. |









Ident. No. 020



Grinding points, hardness J - used for hardened steel

white corundum and blue ceramic sintered corundum abrasive, ceramic bond

Application:

For surface use on hardened and tempered steels, titanium materials, nickel and cobalt-based alloys, deposit welding as well as for regrinding and finishing of repair welds in toolmaking.

Advantage:

■ Cool grinding, due to good friability of the grain mixture

 Consistently high removal rate with very good service life due to the selfsharpening effect of the sintered corundum

Technical Data:

- Shaft diameter: 3 mm
- Shaft length: 30 mm
- Grain size: 80
- Number of pieces per packet: 10





Ident. No. 025-030

Ident. No. 005-020

Ident. No. 035-040

Example application

| Form | Head Ø (mm) | Max. rotation speed (U/min(rpm)) | Type description | 7601 ID no. | |
|-------------|-------------|----------------------------------|------------------|----------------|---------|
| Ball shape | 6 | 149200 | KU 06 3 | 025 | O. R. |
| Ball shape | 8 | 116200 | KU 08 3 | 030 | O. R. |
| Ogive shape | 6 | 107900 | SP 0613 3 | 035 | O. R. |
| Ogive shape | 8 | 72800 | SP 0816 3 | 040 | O. R. |
| Cylindrical | 3 | 206100 | ZY 0306 3 | 005 | O. R. |
| Cylindrical | 4 | 175100 | ZY 0408 3 | 010 | O. R. |
| Cylindrical | 5 | 130700 | ZY 0510 3 | 015 | O. R. |
| Cylindrical | 6 | 93600 | ZY 0613 3 | 020 | O. R. |
| | | | | Unit p | rice, € |

Prod. group 795



Grinding points, hardness J - used for hardened steel

white corundum and blue ceramic sintered corundum material, ceramic bond

Application:

For surface use on hardened and tempered steels, titanium materials, nickel and cobalt-based alloys, deposit welding as well as for regrinding and finishing of repair welds in toolmaking.

Advantage:

• Cool grinding, due to good friability of the grain mixture

 Consistently high removal rate with very good service life due to the selfsharpening effect of the sintered corundum

Technical Data:

- Shaft diameter: 6 mm
- Shaft length: 40 mm
- Grain size: 46
- Number of pieces per packet: 10



Ident. No. 095-100

Ident. No. 085

Ident. No. 090

Ident. No. 045-080

| Form | Head Ø (mm) | Max. rotation speed (U/min(rpm)) | Type description | 76018 |
|-------------|-------------|----------------------------------|------------------|---------------|
| | ` , | | , , | ID no. |
| Cone | 10 | 95400 | KE 1025 6 | 095 O. R. |
| Cone | 16 | 52000 | KE 1645 6 | 100 O. R. |
| Ball shape | 13 | 73400 | KU 13 6 | 085 O. R. |
| Ogive shape | 13 | 73400 | SP 1320 6 | 090 O. R. |
| Cylindrical | 8 | 119300 | ZY0816 6 | 045 O. R. |
| Cylindrical | 10 | 95400 | ZY 1013 6 | 050 O. R. |
| Cylindrical | 13 | 73400 | ZY 1325 6 | 055 O. R. |
| Cylindrical | 16 | 59600 | ZY 1620 6 | 060 O. R. |
| Cylindrical | 16 | 51200 | ZY 1632 6 | 065 O. R. |
| Cylindrical | 20 | 47700 | ZY 2025 6 | 070 O. R. |
| Cylindrical | 32 | 25700 | ZY 3232 6 | 075 O. R. |
| Cylindrical | 40 | 23800 | ZY 4020 6 | 080 O. R. |
| | | | | Unit price, € |



Sanding tips, hardness N

Shank diameter 6 mm, for use with INOX steels

Application:

Ideal for use on edges, for finishing fillet welds, deburring shaped parts produced from high temperature resistant alloys and stainless steel cast parts.

Advantage:

- High grinding comfort due to low-vibration cutting
- Cool grinding during use on temperature-sensitive materials

Also suitable for use on low-speed drive motors

Technical Data:

- Form: Cylindrical
- Shaft diameter: 6 mm
- Shaft length: 40 mm
- Number of pieces per packet: 10





Example application

| Head Ø (mm) | Grain size | Max. rotation speed (U/min(rpm)) | Type description | 76019 ID no. |
|-------------|------------|----------------------------------|------------------|---------------------|
| 8 | 46 | 119300 | ZY 0816 6 | 005 O. I |
| 13 | 46 | 76400 | ZY 1325 6 | 010 0.1 |
| 16 | 30 | 51200 | ZY 1632 6 | 015 0.1 |
| 20 | 30 | 47700 | ZY 2025 6 | 020 O. I |
| 25 | 30 | 32900 | ZY 2532 6 | 025 O. I |
| 32 | 24 | 29800 | ZY 3220 6 | 030 O. I |
| 40 | 24 | 23800 | ZY 4020 6 | 035 O. I |
| | | | | Unit price, |

Prod. group 795



Flap wheelsw

Normal corundum, straight, plastic bonding, shaft diameter 6 mm

Application:

For machining fittings made of light or heavy metal, for use in tool making, for press, casting and die cast moulds and similar.

Execution:

■ Plastic-bonded abrasive cloth discs

- Cast resin core
- Adjusts to the shape of the workpiece during grinding

Technical Data:

■ Shaft diameter: 6 mm



Ident. No. 606, 626, 646, 686, 706, 746, 766, 786, 826, 846, 946, 986

| | Grain size | | | 10 | 60 | | 80 | | 120 | | 150 | | 240 | | 320 | |
|----------------------|---------------------|--------------------|-------|-------|-------|-------|-------|-------|--------|----------|--------|-------|--------|-------|--------|-------|
| Head Ø x head length | Max. rotation speed | Recommended | 76040 | | 7604 | 76040 | | 76040 | | 7604 | 0 | 7604 | 0 | 7604 | 0 | |
| | (U/min(rpm)) | rotation speed (U/ | ID no | | ID no | | ID no | | ID no | | ID no. | | ID no. | | ID no. | |
| | | min(rpm)) | | | | | | | | | | | | | | |
| 30 x 5 mm | 25400 | 16000 | 600 | O. R. | 602 | O. R. | 604 | O. R. | 606 | O. R. | 608 | O. R. | 610 | O. R. | 612 | O. R. |
| 30 x 10 mm | 25400 | 16000 | 620 | 0. R. | 622 | O. R. | 624 | O. R. | 626 | O. R. | 628 | O. R. | 630 | O. R. | 632 | O. R. |
| 30 x 15 mm | 25400 | 16000 | 640 | O. R. | 642 | O. R. | 644 | O. R. | 646 | O. R. | 648 | O. R. | 650 | O. R. | 652 | O. R. |
| 40 x 15 mm | 19000 | 13000 | 680 | 0. R. | 682 | O. R. | 684 | O. R. | 686 | O. R. | 688 | O. R. | 690 | O. R. | 692 | O. R. |
| 40 x 20 mm | 19000 | 13000 | 700 | 0. R. | 702 | O. R. | 704 | O. R. | 706 | O. R. | 708 | O. R. | 710 | O. R. | 712 | O. R. |
| 50 x 15 mm | 15200 | 11000 | 740 | 0. R. | 742 | O. R. | 744 | O. R. | 746 | O. R. | 748 | O. R. | 750 | O. R. | 752 | 0. R. |
| 50 x 20 mm | 15200 | 11000 | 760 | 0. R. | 762 | O. R. | 764 | O. R. | 766 | O. R. | 768 | O. R. | 770 | O. R. | 772 | O. R. |
| 50 x 30 mm | 15200 | 11000 | 780 | O. R. | 782 | O. R. | 784 | O. R. | 786 | O. R. | 788 | O. R. | 790 | O. R. | 792 | O. R. |
| 60 x 20 mm | 12700 | 9000 | 820 | 0. R. | 822 | O. R. | 824 | O. R. | 826 | O. R. | 828 | O. R. | 830 | O. R. | 832 | O. R. |
| 60 x 30 mm | 12700 | 9000 | 840 | O. R. | 842 | O. R. | 844 | O. R. | 846 | O. R. | 848 | O. R. | 850 | O. R. | 852 | O. R. |
| 80 x 30 mm | 9500 | 6000 | 940 | O. R. | 942 | O. R. | 944 | O. R. | 946 | O. R. | 948 | O. R. | 950 | O. R. | 952 | O. R. |
| 80 x 50 mm | 9500 | 6000 | 980 | O. R. | 982 | O. R. | 984 | O. R. | 986 | O. R. | 988 | O. R. | 990 | O. R. | 992 | O. R. |
| | | | | | | | | | Unit p | orice, € | | | | | | |

Prod. group 766



Mini flap wheel

synthetic corundum, straight, plastic bond, shaft diameter 6 mm and 3 mm

Application:

For machining in hard-to-reach places and of very small surfaces, e.g. fittings produced from light or heavy metal, for use in tool making, for press, casting and die cast moulds and similar.

Execution:

- Plastic-bonded abrasive cloth discs
- Cast resin core
- Adjusts to the shape of the workpiece during grinding

| Head Ø x head | ead length | | 10 x 10 mm | 15 x 15 mm | 15 x 15 mm | 15 x 15 mm 20 x 10 mm | | 20 x 15 mm | 20 x 15 mm |
|------------------|----------------------------------|---------------|------------|------------|------------|-----------------------|-------|------------|------------|
| Shaft Ø (mm) | | 3 | | 3 | 6 | 3 | 6 | 3 | 6 |
| Max. rotation sp | Max. rotation speed (U/min(rpm)) | | | 35000 | 35000 | 25000 | 25000 | 25000 | 25000 |
| Recommended | rotation speed (U | /min(rpm)) | 26000 | 24000 | 24000 | 20000 | 20000 | 20000 | 20000 |
| | Grain size | | | | | | | | |
| 76042 | 80 | Ident. No. | 008 | 058 | 108 | 158 | 208 | 258 | 308 |
| 70042 | 00 | Unit price, € | 0. R. | 0. R. | 0. R. | 0. R. | 0. R. | 0. R. | 0. R. |
| 76042 | 120 | Ident. No. | 012 | 062 | 112 | 162 | 212 | 262 | 312 |
| 70042 | 120 | Unit price, € | 0. R. | O. R. | 0. R. | 0. R. | 0. R. | 0. R. | 0. R. |
| 76042 | 150 | Ident. No. | 015 | 065 | 115 | 165 | 215 | 265 | 315 |
| 70042 | 100 | Unit price € | O R | O R | O R | O R | O R | O R | O R |





POLINOX® non-woven abrasive grinding tools

Non-woven abrasives are made of polyamide fibres, synthetic resins and abrasive grains. The non-woven fibre structure is impregnated or infused with resin and abrasive grains. The very loose connection between the individual fibres makes the non-woven fabric extremely flexible and gives is strongly elastic properties. It is flexible and supple and creates a very special surface texture. This satin-finish sanding result of is unique and cannot be produced using other abrasives. The uniform distribution of the abrasive grains in the non-woven fabric guarantees a continuous supply of new, fresh and sharp abrasive grains during the entire sanding operation.

Application:

Non-woven abrasives are used when other grinding tools have reached the limit of their use or no longer achieve the required result. Ideal for matting and satin-finishing of metals, cleaning oxidised non-ferrous base metals, uniform brush-matting of stainless steel, roughening of plastics in preparation for bonding and for levelling the surfaces of weld seams. Abrasive fleece can be used for wet or dry sanding.

Absolve grain

Abrasive grain Synthetic fibres Resin

Advantages:

- Water-resistant and washable
- High resistance
- No clogging
- No residues of rust on surface
- No conductivity

2

POLINOX® fleece sanding tips

Model PNZ, corundum, shank diameter 6 mm, shank length 40 mm

Technical Data:

Material of abrasive medium: Corundum

| Head Ø x head length | | | 40 x 20 mm | 40 x 20 mm | 50 x 30 mm | 50 x 30 mm |
|-----------------------------------|--|-----------------------------|---------------------|---------------------|---------------------|---------------------|
| Grain size | Grain size | | | 180 | 100 | 180 |
| Max. rotati | ion speed (U/mir | n(rpm)) | 15000 | 15000 | 12000 | 12000 |
| Recommer min(rpm)) | nded rotation spe | ed (U/ | 7500 | 7500 | 6000 | 6000 |
| Number of | pieces per packe | et (PCS) | 10 | 10 | 10 | 10 |
| | Type description | | | | | |
| 76044 | 4 POLINOX PNZ Ident. No. Unit price, € | | 205 O. R. | 210 O. R. | 215 O. R. | 220 O. R. |
| Head Ø x h | nead length | | 60 x 50 mm | 60 x 50 mm | 80 x 50 mm | 80 x 50 mm |
| Grain size | | | 100 | 180 | 100 | 180 |
| Max. rotati | ion speed (U/mir | n(rpm)) | 10000 | 10000 | 7500 | 7500 |
| Recommer min(rpm)) | nded rotation spe | ed (U/ | 5000 | 5000 | 4000 | 4000 |
| Number of pieces per packet (PCS) | | | 10 | 10 | 10 | 10 |
| | Type description | | | | | |
| 76044 | POLINOX PNZ | Ident. No. Unit price, € | 225 O. R. | 230 O. R. | 235 O. R. | 240 O. R. |

| Head Ø x h | ead length | 100 x 50 mm | 100 x 50 mm | |
|--------------------|---------------------|-------------|-------------|-----|
| Grain size | | 100 | 180 | |
| Max. rotati | on speed (U/mir | 6000 | 6000 | |
| Recommer min(rpm)) | nded rotation spe | 3000 | 3000 | |
| Number of | pieces per packe | et (PCS) | 5 | 5 |
| | Type description | | | |
| 76044 | POLINOX PNZ | Ident. No. | 245 | 250 |







PNZ
Special features of model PNZ:
The abrasive fleece elements are arranged radially with abrasive cloth interlayers. This structure enables an improved material removal and produces a coarser finish



Poliflex® fine grinding tools

Poliflex® fine grinding tools have high dimensional stability, excellent quality consistency and tight dimensional tolerances. They are ideal for finishing, structuring and preparing for polishing.

Advantages

- provide an excellent surface finish of workpieces
- Can be easily profiled for the application in hand with a dressing diamond or with a ceramic turning tool running at a low rotation speed
- The precise true-running of Poliflex® fine grinding tools
- Allows healthier working

- Reduces strain on drive motors
- Allows smooth operation
- Minimises operating vibrations
- Reduces wear

Recommended cutting speeds:

The cutting speeds are indicated by blue diagonal lines in the diagram. The vertical corresponding to the tool diameter meets the specified cutting speed (diagonal). From there, the rotation speeds (rpm) of sanding tips and machine can be read off horizontally from the left edge.

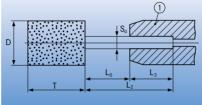


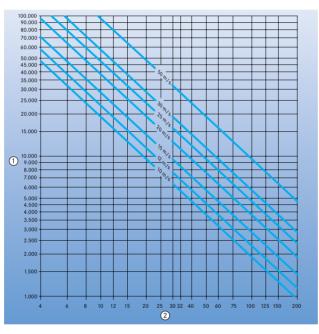
T = sanding tip width $Sd = shaft \emptyset$.

L = shaft length

L₂ = shaft length L₃ = shaft clamping length







① = rotation speed n (rpm), ② = tool Ø D (mm)

PFERD

Poliflex® fine sanding tips with PUR bonding

Cylindrical, silicon carbide, green

Application:

For pre-grinding to prepare for polishing of steel components, stainless steel (INOX), titanium, light and non-ferrous base metals as well as components for the food and cooking industry, for use on flexible shafts, electric and compressed air operated straight grinders.

Recommended cutting speed: 10-12 m/s

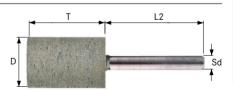
Advantage:

- The open structure and high elasticity permit good adaptation to contours and ensure soft, cool grinding
- An excellent surface finish of the workpieces is achieved

Technical Data:

■ Shaft diameter x shaft length: 6 x 40 mm

| Grain size | | 80 | 80 | 80 | 150 | 150 | 150 |
|--------------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Head Ø x head length | | 15 x 30 | 20 x 30 | 25 x 30 | 15 x 30 | 20 x 30 | 25 x 30 |
| | | mm | mm | mm | mm | mm | mm |
| Max. rotation min (rpm)) | n speed (U/ | 19000 | 14300 | 11400 | 19000 | 14300 | 11400 |
| Recommend speed (U/mi | | 12500 | 9500 | 7500 | 12500 | 9500 | 7500 |
| 69200 | Ident. No. Unit price, € | 010 O. R. | 015 O. R. | 020 O. R. | 025 O. R. | 030 O. R. | 035 O. R. |



Cylindrical pin type



Example application



Poliflex® fine sanding tips with GR bonding

Cylindrical, pink corundum

Application:

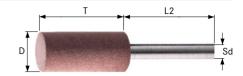
Advantage:

For fine grinding of edges and overlaps and for producing a surface finish on fittings, for use on flexible shafts, electric and compressed air operated straight grinders.

An excellent surface finish of the workpieces is achieved

Technical Data:

■ Grain size: 120



Cylindrical pin type

| Ideal for use on surfaces steel components, stainle ferrous base metals | | |
|---|----------|--------|
| Head (A v head length | 1 v 0 mm | 6 v 10 |

| Head Ø x h | ead length | 4 x 8 mm | 6 x 10 mm | 8 x 12 mm | 10 x 10 mm | 10 x 25 mm | 12 x 20 mm | 12 x 20 mm | 15 x 25 mm |
|-------------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Shaft Ø x s | haft length | 3 x 30 mm | 6 x 40 mm | 3 x 30 mm | 6 x 40 mm | 6 x 40 mm |
| Max. rotation min(rpm)) | on speed (U/ | 71600 | 47700 | 35800 | 28600 | 28600 | 23800 | 23800 | 19000 |
| Recommen speed (U/r | nded rotation min(rpm)) | 47500 | 32000 | 24000 | 19000 | 19000 | 16000 | 16000 | 12500 |
| 69200 | Ident. No. Unit price, € | 210 O. R. | 215 O. R. | 220 O. R. | 225 O. R. | 235 O. R. | 230 O. R. | 240 O. R. | 245 O. R. |

| Head Ø x h | ead length | 20 x 20 mm | 20 x 30 mm | | |
|--------------------------|-----------------------------|---------------------|---------------------|--|--|
| Shaft Ø x s | haft length | 6 x 40 mm 6 x 40 mm | | | |
| Max. rotati min(rpm)) | on speed (U/ | 14300 | 14300 | | |
| Recommer speed (U/I | nded rotation min(rpm)) | 9500 | 9500 | | |
| 69200 | Ident. No. Unit price, € | 250 O. R. | 255 O. R. | | |

Prod. group 795



Poliflex® fine sanding tips with GHR bond

Cylindrical, normal corundum

Application:

For fine grinding of edges and overlaps and for producing a surface finish on fittings, for use on flexible shafts, electric and compressed air operated straight grinders.

 An excellent surface finish of the workpieces is achieved

Technical Data:

Grain size: 120

Advantage:

Ideal for use on edges of unhardened structural steel components and stainless steel (INOX)

| Head Ø x head length | | 8 x 12 mm | 10 x 10 mm | 10 x 15 mm | 10 x 25 mm |
|--------------------------------|----------------------------|---------------------|-------------------------------|---------------------|---------------------|
| Shaft Ø x shaft len | gth | 3 x 30 mm | 3 x 30 mm 3 x 30 mm 3 x 30 mm | | 6 x 40 mm |
| Max. rotation spee | ed (U/min(rpm)) | 71600 | 57200 | 52000 | 57200 |
| Recommended rot (U/min(rpm)) | Recommended rotation speed | | 45000 | 45000 | 45000 |
| 69200 Ident. No. Unit price, € | | 310 O. R. | 315 O. R. | 320 O. R. | 325 O. R. |

Prod. group 795



Felt tools and cloth rings

Application:

- Preliminary and high-gloss polishing of injection moulding tools for plastic parts
- Preliminary polishing of fittings
- Polishing of cemented carbide cutting knives
- High-gloss polishing of stainless steel components (INOX)

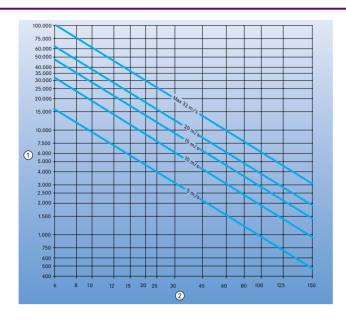
Felt tools are used in conjunction with diamond polishing paste and polishing paste bars. When changing the polishing paste, the polishing tool must also

be changes. Cloth rings are used with polishing pastes for pre-polishing and high-gloss polishing.

Recommended cutting speeds:

The cutting speeds are indicated by blue diagonal lines in the diagram. The vertical corresponding to the tool diameter meets the specified cutting speed (diagonal). From there, the rotation speeds (in rpm) of felt tools. cloth rings and machine can be read off horizontally from the left edge.





① = rotation speed n (rpm) ② = tool Ø D (mm

Felt polishing grinding points

shaft diameter 6 mm, shaft length 40 mm

For pre-polishing and gloss polishing of injection moulding tools, fittings, cemented carbide cutting knives and for gloss polishing of stainless steel components (INOX).

Execution:

■ Ident. No. 025-035, 060-070: Also available with 3-mm shaft diameter on request



- The broad diversity of shapes and diameters permits the polishing of complex workpiece geometries too
- The felt polishing and grinding points can be profiled as required









Ident. No. 005-020 Type — cylinder ZYA:
Work is predominantly carried out with
the tool circumference

Ident. No. 025-035 Type - pointed cone SKM: Used predominantly to machine radii and contours

Ident. No. 040-055 Type - cone KEL: Used predominantly to machine radii and contours

Ident. No. 060-070 Type – cylindrical with radius end WRC: Mainly used for machining minor concave contours.

| Form | | | | | Conical pointed | | Conical | | Cylindrical shape | |
|----------------------------------|--------------------------------|----------------------------------|-------|-------|-----------------|--------|---------|-------|-------------------|-------|
| Head Ø x head length | Min./max. recommended rotation | Max. rotation speed (U/min(rpm)) | 6920 | 2 | 69202 | | 69202 | | 6920 | 2 |
| | speed | | ID no | | ID no | | ID no | | ID no | |
| 10 x 14 mm | 10000-20000 U/min | 61000 | 005 | O. R. | - | - | - | - | - | - |
| 10 x 18 mm | 10000-20000 U/min | 61000 | - | - | 025 | O. R. | - | - | - | - |
| 15 x 20 mm | 6000-12000 U/min | 41000 | 010 | O. R. | - | - | 040 | O. R. | 060 | O. R. |
| 15 x 30 mm | 6000-12000 U/min | 41000 | - | - | 030 | O. R. | - | - | - | - |
| 20 x 25 mm | 5000-10000 U/min | 30500 | 015 | O. R. | 035 | O. R. | 045 | O. R. | 065 | O. R. |
| 25 x 30 mm | 4000-8000 U/min | 24400 | 020 | O. R. | - | - | 050 | O. R. | 070 | O. R. |
| 30 x 35 mm 3000-6000 U/min 20000 | | | | - | - | - | 055 | O. R. | - | - |
| | | | | | | Unit p | rice, € | | | |

Prod. group 795



Grinding and polishing paste

used in combination with felt polishing tips and discs

Application:

For use in combination with felt polishing points and cloth rings.

Execution:

■ Dimensions (width x depth x height) 70 x 50 x 140

| Material to be pro | cessed | Steel Stainless steel | Aluminium Brass | Non-ferrous metal | Metal |
|--------------------|---------------|-------------------------|----------------------|----------------------|------------|
| 76051 | Ident. No. | 505 | 515 | 525 | 535 |
| | Unit price, € | O. R. | O. R. | O. R. | O. R. |









Satin-finishing sanding belts

for cleaning, grinding and finishing of surfaces with a satin-finishing machine

Application:

Ident. No. 010: For grinding of a rough pre-ground disc.

Ident. No. 020: For refinement of a rough pre-ground disc or for finishing of a fine pre-ground disc.

Ident. No. 030: For fine grinding to a brilliant end surface finish. Ident. No. 040: For fine grinding to a matt end surface finish.

Execution:

■ For use with pick-up rollers no. 69205 110 and 120

Advantage:

• Ident. No. 010: Precisely shaped ceramic abrasive grains, thus up to 40% faster

■ Ident. No. 020:

- No discolouration on stainless steel due to grinding aid
- Ensures cool grinding
- Ident. No. 030:
- Uniform grinding finish
- Saves work steps, as the sanding belt permits a large jump in the grain size, directly from pre-grinding to refinement
- Ident. No. 040: Creation of a mat surface finish



Ident. No. 010



Ident. No. 020



Ident. No. 030



Ident. No. 040









| Type description | | 984F Cubitron II 947D 237AA | | Scotch-Brite SC-BF | |
|-------------------------------|-----------------------------------|-----------------------------|-----------------------|-------------------------|-----------------|
| Material of abrasive medium | | Ceramic core Cubitron 2 | Ceramic core Cubitron | Trizact aluminium oxide | Aluminium oxide |
| Grid size | | 60 | P120 | A-065 | 320-360 |
| Number of pieces per packet (| Number of pieces per packet (PCS) | | 10 20 20 | | 5 |
| Surface structure | | - | - | - | Very fine |
| 69205 | ldent. No. | 010 | 020 | 030 | 040 |
| 69205 | Unit price, € | 0. R. | 0. R. | 0. R. | O. R. |

Prod. group 6DM



Pick-up rollers MA-AC with 19 mm pick-up

for holding satiny sanding belts





Ident. No. 110

Ident. No. 120

| | | | Pneumatic | Hard | |
|--------|------------|-------------|-----------|-----------|--|
| Ø (mm) | Width (mm) | Bore Ø (mm) | 69205 | 69205 | |
| , , | , , | , , | ID no. | ID no. | |
| 90 | 100 | 19 | 110 O. R. | 120 O. R. | |
| | | | Unit p | orice, € | |

Prod. group 6DM



INDIGA oilstones corundum Ceramic bond

Application:

- For sharpening and reworking tools for wood, metal and plastic processing, e.
 g. scrapers, machine and plane knives, steels, reamers, gauges and measuring
 equipment
- Use with light oil, petroleum or water

Version:

- Machined and wetted on all sides after burning
- Grain sizes: rough, medium and fine

Advantage:

Great durability and abrasive power

INDIGA bench stone

Type 9010

Technical Data:

■ Number of pieces per packet: 1



| Length x width | | | | 100 x 25 mm | 150 x 40 mm | 150 x 50 mm | 200 x 50 mm |
|----------------------------|-----------|-------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|
| Length x width x thickness | | | 100 x 25 x 13 mm | 150 x 40 x 20 mm | 150 x 50 x 25 mm | 200 x 50 x 25 mm | |
| | Grid size | Surface structure | | | | | |
| 69340 | 100 | Rough | ldent. No. Unit price, € | 115 O. R. | 125 O. R. | 130 O. R. | 135 O. R. |
| 69340 | 150 | Medium | ldent. No. Unit price, € | 215 O. R. | 225 O. R. | 230 O. R. | 235 O. R. |
| 69340 | 400 | Fine | ldent. No. Unit price, € | 315 O. R. | 325 O. R. | 330 O. R. | 335 O. R. |

Prod. group 690

INDIGA composite bench stone

With a rough and a fine side, type 9010

ISO 525

Technical Data:

Number of pieces per packet: 1



| Length x width | | | 100 x 25 mm | 115 x 40 mm | 125 x 50 mm | 150 x 40 mm | 150 x 50 mm | 200 x 50 mm |
|----------------------------|-----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Length x width x thickness | | | 100 x 25 x 13 | 115 x 40 x 16 | 125 x 50 x 20 | 150 x 40 x 20 | 150 x 50 x 25 | 200 x 50 x 25 |
| | | | mm | mm | mm | mm | mm | mm |
| | Grid size | | | | | | | |
| 69341 | 100 /400 | Ident. No. | 010 | 015 | 020 | 025 | 030 | 035 |
| 69341 100/400 | | Unit price, € | O. R. |

Prod. group 690

INDIGA flat files

Type 9010



| | | | | | | 1 | | |
|-----------------------------------|-----------------------------|--|---------------|----------------|----------------|-----------------|-----------------|---------------------|
| Length x width | | | | 100 x 6 mm | 100 x 8 mm | 100 x 10 mm | 150 x 16 mm | 150 x 20 mm |
| Length x width | x thickness | | | 100 x 6 x 3 mm | 100 x 8 x 4 mm | 100 x 10 x 5 mm | 150 x 16 x 8 mm | 150 x 20 x 10 mm |
| Number of pieces per packet (PCS) | | | 6 | 6 | 6 | 3 | 3 | |
| | Grid size Surface structure | | | | | | | |
| 69346 | 150 Medium | | ldent. No. | 210 | 215 | 220 | 240 | 245 |
| 09340 | 7346 130 Wedium | | Unit price, € | 0. R. | 0. R. | 0. R. | 0. R. | 0. R. |
| 60246 | 9346 400 Fine | | Ident. No. | | 315 | 320 | 340 | 345 |
| 09340 | | | Unit price, € | _ | O. R. | O. R. | O. R. | O. R. |



Record block composite bench stone

With a rough and a fine side, type 9010

ISO 525

ISO 525

ISO 525



| Length x width | | | 100 x 50 mm | 115 x 60 mm | 130 x 70 mm | 140 x 80 mm | 150 x 50 mm |
|-----------------------|----------------|---------------|------------------|------------------|------------------|------------------|------------------|
| Length x width x thic | kness | | 100 x 50 x 20 mm | 115 x 60 x 20 mm | 130 x 70 x 20 mm | 140 x 80 x 20 mm | 150 x 50 x 20 mm |
| Number of pieces pe | r packet (PCS) | | 1 | 1 | 1 | 1 | 1 |
| | Grid size | | | | | | |
| 69355 | 150/500 | ldent. No. | 040 | 050 | 060 | 070 | 065 |
| 09333 | 130/300 | Unit price, € | O. R. |

Prod. group 690



Silicon carbide grinding stones and files Ceramic bond

Application:

- Grinding and honing stones for heavily used and high-grade steels, also for carbide-tipped tools or solid carbide tools
- Usable with oil, petroleum, water or even dry

Version:

■ Ceramic bond

• Grain sizes: rough, medium and fine

Advantage:

- Machined on all sides after burning for uniform hardness and grip
- Very high abrasive power
- Particularly good grip

Silicon carbide composite bench stones

Type 9010

Technical Data:

■ Number of pieces per packet: 1



| Length x width x | thickness | | 100 x 25 x 13 mm | 125 x 50 x 20 mm | 150 x 40 x 20 mm | 150 x 50 x 25 mm | 200 x 50 x 25 mm |
|------------------|-----------|-----------------------------|------------------|---------------------|---------------------|---------------------|---------------------|
| Length x width | | | 100 x 25 mm | 125 x 50 mm | 150 x 40 mm | 150 x 50 mm | 200 x 50 mm |
| | Grid size | | | | | | |
| 69321 | 100/280 | Ident. No. Unit price. € | 010 O. R. | 030 O. R. | 040 O. R. | 050 O. R. | 070 O. R. |

Prod. group 690

Silicon carbide bench stones

Type 9010

Technical Data:

■ Number of pieces per packet: 1



| Length x width x t | hickness | | | 100 x 25 x 6 mm | 100 x 25 x 13 mm | 150 x 50 x 25 mm | 200 x 50 x 25 mm |
|--------------------|-----------|-------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|
| Length x width | | | | 100 x 25 mm | 100 x 25 mm | 150 x 50 mm | 200 x 50 mm |
| | Grid size | Surface structure | | | | | |
| 69320 | 150 | Medium | Ident. No. Unit price, € | 210 O. R. | 215 O. R. | 225 O. R. | 235 O. R. |
| 69320 | 280 | Fine | Ident. No. Unit price, € | 310 O. R. | 315 O. R. | 325 O. R. | 335 O. R. |
| 69320 | 100 | Rough | Ident. No. Unit price, € | - | 115 O. R. | 125 O. R. | 135 O. R. |



ISO 525

Silicon carbide square files

ISO 525 Type 9011



| Length x v | vidth x thicknes | SS | | 100 x 8 x 8 | 100 x 10 x 10 | 100 x 13 x 13 | 100 x 6 x 6 | 150 x 10 x 10 | 150 x 13 x 13 |
|-----------------------------------|------------------|----------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|
| | | | | mm | mm | mm | mm | mm | mm |
| Length x v | ength x width | | | | 100 x 10 mm | 100 x 13 mm | 100 x 6 mm | 150 x 10 mm | 150 x 13 mm |
| Number of pieces per packet (PCS) | | | 6 | 6 | 6 | 6 | 3 | 3 | |
| | Grid size | Surface structure | | | | | | | |
| 69322 | 100 | Rough | Ident. No. Unit price, € | 115 O. R. | 120 O. R. | 125 O. R. | - | 130 O. R. | 135 (O. R.) |
| 69322 | 150 | Medium | Ident. No. Unit price, € | 215 O. R. | 220 O. R. | 225 O. R. | 210 O. R. | 230 O. R. | 235 O. R. |
| 69322 | 280 | Fine | Ident. No. Unit price, € | 315 O. R. | 320 O. R. | 325 O. R. | 310 O. R. | 330 O. R. | 335 O. R. |

| Length x w | idth x thickness | | | 150 x 16 x 16 | 150 x 20 x 20 | 200 x 20 x 20 |
|------------|------------------|----------------------|-----------------------------|---------------------|---------------------|---------------------|
| | | | | mm | mm | mm |
| Length x w | /idth | | | 150 x 16 mm | 150 x 20 mm | 200 x 20 mm |
| Number of | pieces per pack | et (PCS) | 3 | 3 | 2 | |
| | Grid size | Surface structure | | | | |
| 69322 | 100 | Rough | Ident. No. Unit price, € | 140 O. R. | 145 O. R. | 150 O. R. |
| 69322 | 150 | Medium | Ident. No. Unit price, € | 240 O. R. | 245 O. R. | 250 O. R. |
| 69322 | 280 | Fine | Ident. No. Unit price, € | 340 O. R. | 345 O. R. | 350 O. R. |

Prod. group 690

Silicon carbide triangular files

ISO 525 Type 9020



| Length x wi | dth | | | 100 x 6 mm | 100 x 8 mm | 100 x 10 mm | 100 x 13 mm | 150 x 10 mm | 150 x 13 mm | 150 x 16 mm | 200 x 20 mm |
|-----------------------------------|-----|--------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Number of pieces per packet (PCS) | | | 6 | 6 | 6 | 6 | 3 | 3 | 3 | 2 | |
| Grid size Surface structure | | | | | | | | | | | |
| 69323 | 100 | Rough | Ident. No. Unit price, € | 110 O. R. | 115 O. R. | 120 O. R. | 125 O. R. | - | - | - | - |
| 69323 | 150 | Medium | Ident. No. Unit price, € | - | 215 O. R. | 220 O. R. | 225 O. R. | 230 O. R. | 235 O. R. | 240 O. R. | - |
| 69323 | 280 | Fine | ldent. No. Unit price, € | - | - | 320 O. R. | 325 O. R. | 330 O. R. | 335 O. R. | 340 O. R. | 350 O. R. |

Prod. group 690

Silicon carbide round files

Type 9030



| Ø x length | | | | 10 x 100 mm | 10 x 150 mm | 13 x 150 mm | 16 x 150 mm |
|---------------------|----------------|-------------------|---------------|-------------|-------------|-------------|-------------|
| Number of pieces pe | r packet (PCS) | | | 6 | 3 | 3 | 3 |
| | Grid size | Surface structure | | | | | |
| 69324 | 150 | Medium | ldent. No. | 220 | 230 | 235 | 240 |
| 07324 | 130 | Medium | Unit price, € | O. R. | O. R. | O. R. | O. R. |
| 69324 | 280 | Fine | Ident. No. | 320 | | _ | |
| 07324 | 200 | Tille | Unit price, € | O. R. | _ | - | - |

HAHN+KOLB

Silicon carbide slip stone

Type 9010 D



| Length x width x thickness | | | | 100 x 25 x 3 mm |
|-----------------------------------|-------------|-------------------|---------------|-----------------|
| Length x width | 100 x 25 mm | | | |
| Number of pieces per packet (PCS) | | | | 6 |
| | Grid size | Surface structure | | |
| 69330 | 150 | Medium | ldent. No. | 210 |
| 09330 | 130 | Mediairi | Unit price, € | O. R. |
| 69330 | 280 | Fine | Ident. No. | 310 |
| 07330 | 200 | Tille | Unit price, € | O. R. |

Prod. group 690



RECORD ARKANSAS oil stones

Application:

- For processing cutting tools, knives, surgical instruments, engravers' tools, watchmakers' tools and others.
- Use with oil or petroleum

Version:

Synthetic honing stones, produced according to a special ceramic procedure

RECORD-ARKANSAS bench stone

Type 9010



| Length x width x t | hickness | | 100 x 25 x 13 mm | 125 x 50 x 20 mm | 150 x 50 x 25 mm | 200 x 50 x 25 mm |
|--------------------|-----------------------------------|---------------|------------------|------------------|------------------|------------------|
| Length x width | | | | 125 x 50 mm | 150 x 50 mm | 200 x 50 mm |
| Thickness (mm) | | | 13 | 20 | 25 | 25 |
| Number of pieces | Number of pieces per packet (PCS) | | | 1 | 1 | 1 |
| | Surface structure | | | | | |
| 69430 | Very fine | ldent. No. | 010 | 020 | 030 | 040 |
| 09430 | very line | Unit price, € | O. R. | O. R. | O. R. | O. R. |

Prod. group 690

RECORD ARKANSAS square files

Type 9011



ISO 525



| Length x width | x thickness | | 100 x 6 x 6 | 100 x 8 x 8 | 100 x 10 x 10 | 100 x 13 x 13 | 150 x 13 x 13 | 150 x 16 x 16 | 200 x 20 x 20 |
|----------------------------|-----------------------------------|---------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|
| | | | | mm | mm | mm | mm | mm | mm |
| Length x width | | | 100 x 6 mm | 100 x 8 mm | 100 x 10 mm | 100 x 13 mm | 150 x 13 mm | 150 x 16 mm | 200 x 20 mm |
| Thickness (mm) | | | 6 | 8 | 10 | 13 | 13 | 16 | 20 |
| Number of piece | Number of pieces per packet (PCS) | | 6 | 6 | 6 | 6 | 3 | 3 | 2 |
| | Surface | | | | | | | | |
| | structure | | | | | | | | |
| 69434 Very fine Ident. No. | | 010 | 020 | 030 | 040 | 060 | 070 | 080 | |
| 09434 | very line | Unit price, € | 0. R. | 0. R. | 0. R. | 0. R. | 0. R. | 0. R. | 0. R. |

ISO 525

ISO 525

RECORD ARKANSAS triangular files

ISO 525 Type 9020



| Length x width | | | 100 x 6 mm | 100 x 10 mm | 100 x 13 mm | 150 x 16 mm |
|-----------------------------------|-------------------|---------------|------------|-------------|-------------|-------------|
| Number of pieces per packet (PCS) | | 6 | 6 | 6 | 3 | |
| | Surface structure | | | | | |
| 69436 | Von fine | Ident. No. | 010 | 020 | 030 | 050 |
| 09430 | Very fine | Unit price, € | O. R. | O. R. | O. R. | O. R. |

Prod. group 690

RECORD ARKANSAS round files

ISO 525 Type 9030



| Length x width | | | 100 x 6 mm | 100 x 8 mm | 100 x 10 mm | 100 x 13 mm |
|-----------------------------------|-------------------|---------------|------------|------------|-------------|-------------|
| Number of pieces per packet (PCS) | | 6 | 6 | 6 | 6 | |
| | Surface structure | | | | | |
| 69438 | Very fine | ldent. No. | 010 | 020 | 030 | 040 |
| 09438 | very fine | Unit price, € | 0. R. | O. R. | O. R. | 0. R. |

Prod. group 690

RECORD ARKANSAS half-round files

Type 9040



| Length x width x thickness | 100 x 10 x 5 mm | | |
|-----------------------------------|-------------------|---------------|-------|
| Length x width | 100 x 10 mm | | |
| Thickness (mm) | | | 5 |
| Number of pieces per packet (PCS) | | | 6 |
| | Surface structure | | |
| 69440 Very fine | | | 020 |
| 09440 | very fille | Unit price, € | O. R. |

Prod. group 690

RECORD ARKANSAS flat files

Type 9010



| Length x width x thickness | | | 100 x 6 x 3 mm | 100 x 8 x 4 mm | 150 x 20 x 10 mm |
|-----------------------------|-------------------|-----------------------------|---------------------|---------------------|---------------------|
| Length x width | | | 100 x 6 mm | 100 x 8 mm | 150 x 20 mm |
| Thickness (mm) | | | 3 | 4 | 10 |
| Number of pieces per packet | (PCS) | | 6 | 6 | 3 |
| | Surface structure | | | | |
| 69442 | Very fine | Ident. No. Unit price, € | 010 O. R. | 020 O. R. | 040 O. R. |



RECORD ARKANSAS gouge stones

ISO 525 Type 9010 A 4



| Length x width x thickness | | | 115 x 45 x 6/2 mm | 115 x 45 x 10/3 mm |
|-----------------------------------|-------------------|---------------|-------------------|--------------------|
| Length x width | | | 115 x 45 mm | 115 x 45 mm |
| Thickness (mm) | | | 6/2 | 10/3 |
| Number of pieces per packet (PCS) | | | 6 | 3 |
| | Surface structure | | | |
| 69432 | Van, fina | Ident. No. | 010 | 020 |
| 09432 | Very fine | Unit price, € | 0. R. | O. R. |

Prod. group 690



DEGUSSIT grinding stones and files

The oxide-ceramic precision grinding tools consists of mixed crystal of extraordinary hardness, the main component of which is aluminium oxide. Chromium oxide additives cause the typical red colour. In nature, this crystal occurs as ruby. The fine grinding tools are bonding-agent-free. They have a high resistance to wear and deformation as a result of the high hardness of the sintered crystals. These properties are particularly important for precision work to achieve excellent surface quality and geometrical accuracy. Low wear also brings economic benefits. When processing using fine grinding tools, the surface of the workpiece is machined, but can also be consolidated and polished using the finest variety and applying pressure.

They are the ideal hand tools for all grinding, deburring and fine grinding work. They are also perfect for resharpening tools of all kinds. Furthermore, they are particularly suitable for making bevels on cutting tools, notching profiles, working shaped parts of hardened steel and also processing other hard or abrasive materials such as quartz, glass, ceramics.

The tools can be used wet or dry. Moistening once with petroleum or cutting oil is sufficient. Clean by wiping with a degreasing agent. If using dry, clean the tool using a pencil eraser.

DEGUSSIT bench stone

type 9010

ISO 525

ISO 525

| Form | | | | Rectangular | Rectangular | Rectangular |
|----------------|-------------------|-----------|---------------|---------------|---------------|---------------|
| Length x width | n x thickness | | | 100 x 25 x 10 | 120 x 50 x 10 | 150 x 25 x 15 |
| _ | | | | mm | mm | mm |
| Length x width | า | | | 100 x 25 mm | 120 x 50 mm | 150 x 25 mm |
| Number of pie | ces per packet (l | PCS) | | 1 | 1 | 1 |
| | | Surface | | | | |
| | | structure | | | | |
| 69360 | _ | Fine | Ident. No. | 010 | | 020 |
| 09300 | - | rille | Unit price, € | 0. R. | - | 0. R. |
| 69361 | | Medium | Ident. No. | 010 | | 020 |
| 09301 | - | Medium | Unit price, € | O. R. | - | 0. R. |
| 69365 | Bonded into | Fine | Ident. No. | | 020 | |
| 07303 | wooden box | I IIIe | Unit price, € | _ | O. R. | _ |





No. 69360-69361



No. 69365

DEGUSSIT square file

Type 9011 Technical Data:

■ Number of pieces per packet: 1

■ Form: Square-cut Length x width x thickness 100 x 4 x 4 100 x 6 x 6 100 x 8 x 8 100 x 10 x 120 x 13 x mm mm mm 10 mm 13 mm Length x width 100 x 4 100 x 6 100 x 8 100 x 10 120 x 13 mm mm mm mm mm Surface structure Ident. No. 69375... Medium Unit price, € O. R. O.R. O. R. O. R. 0. R. Ident. No. 030 040 050 69374... O. R. O. R. Unit price, € O. R.



Prod. group 6HD

ISO 525

DEGUSSIT triangular file

ISO 525 type 9020

Technical Data: ■ Form: Triangle

■ Number of pieces per packet: 1

| Length x width | | | 100 x 8 | 100 x 10 | 120 x 13 | 100 x 4 | 100 x 6 |
|----------------|----------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | | mm | mm | mm | mm | mm |
| | Surface structure | | | | | | |
| 69371 | Fine | Ident. No. Unit price, € | 030 O. R. | 040 O. R. | 050 O. R. | - | - |
| 69372 | Medium | ldent. No. Unit price, € | 030 O. R. | 040 O. R. | 050 O. R. | 010 O. R. | 020 O. R. |



Prod. group 6HD

DEGUSSIT round file

ISO 525 Type 9030

Technical Data: ■ Form: Round

■ Number of pieces per packet: 1

| Ø x length | | | 4 x 100 mm | 6 x 100 mm | 8 x 100 mm | 10 x 100 mm |
|------------|-------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|
| | Surface structure | | | | | |
| 69384 | Medium | Ident. No. Unit price, € | 010 O. R. | 020 O. R. | 030 O. R. | 040 O. R. |
| 69383 | Fine | Ident. No. Unit price, € | - | - | 030 O. R. | 040 O. R. |



Prod. group 6HD

DEGUSSIT half-round file

ISO 525 Type 9040

| Form | Half-round | | |
|---------------------|-------------------|---------------|-------|
| Length x width | 100 x 10 mm | | |
| Number of pieces pe | r packet (PCS) | | 1 |
| | Surface structure | | |
| 69377 | Medium | Ident. No. | 010 |
| 69377 | iviedium | Unit price, € | O. R. |



Prod. group 6HD

DEGUSSIT flat file

ISO 525 Type 9010

| Form | | | Flat | Flat |
|------------------|--------------------|-----------------------------|---------------------|---------------------|
| Length x width x | thickness | | 100 x 6 x 3 mm | 100 x 8 x 6 mm |
| Length x width | | | 100 x 6 mm | 100 x 8 mm |
| Number of piece | s per packet (PCS) | | 1 | 1 |
| | Surface structure | | | |
| 69368 | Fine | Ident. No. Unit price, € | 010 O. R. | 020 O. R. |
| 69369 | Medium | Ident. No. Unit price, € | 010 O. R. | 020 O. R. |



Prod. group 6HD

DEGUSSIT gouge stone

Type 9010 A 4

| Form | | | Round |
|-------------------------------|-------------------|---------------|-------------|
| | | | |
| Length x width x thickness | 100 x 30 x 7/2 mm | | |
| Length x width | | | 100 x 30 mm |
| Number of pieces per packet (| PCS) | | 1 |
| | Surface structure | | |
| 69363 | Medium | Ident. No. | 010 |
| 09303 | Medium | Unit price, € | O. R. |



Prod. group 6HD

ISO 525

ISO 525

asives and emicals

DEGUSSIT tapered file

Tapered, type 9030 B

| Form | | | Pointed |
|------------------------|-------------------|---------------|------------|
| Length x width x thick | 100 x 5 x 2 mm | | |
| Length x width | | | 100 x 5 mm |
| Number of pieces per | packet (PCS) | | 1 |
| | Surface structure | | |
| 69380 | Fine | Ident. No. | 010 |
| 09300 | rine | Unit price, € | O. R. |
| 69381 | Rough | Ident. No. | 010 |
| 07301 | Longii | Unit price, € | O. R. |



HAHN+KOLB

Prod. group 6HD

DEGUSSIT pencil file

Tip with 60°, type 9030 B

| Form | Pointed | | | | |
|-------------------------------|-----------------------------------|---------------|-------|--|--|
| Ø x length | 5 x 100 mm | | | | |
| Number of pieces per packet (| Number of pieces per packet (PCS) | | | | |
| | Surface structure | | | | |
| 69382 Fine | | Ident. No. | 010 | | |
| 09382 | Fille | Unit price, € | O. R. | | |

Prod. group 6HD



DEGUSSIT knife file

Type 9010 D

| Form | Knife shape | | | |
|--------------------------|-------------------|-----------------|-------|--|
| Length x width x thickne | | 100 x 15 x 3 mm | | |
| Length x width | | 100 x 15 mm | | |
| Number of pieces per pa | 1 | | | |
| | Surface structure | | | |
| 69386 | Fine | Ident. No. | 010 | |
| 09380 | Tille | Unit price, € | O. R. | |
| 69387 Medium | | Ident. No. | 010 | |
| 09387 | iviedium | Unit price, € | O. R. | |

Prod. group 6HD

DEGUSSIT mini files

various types



| Form | | Barett | Triangle | Triangle | Flat | Round | Round | Round | Square-cut | Square-cut | |
|--------------|----------------------------|---------------|------------|-----------|------------|--------------|-----------|------------|------------|--------------|------------|
| Length x wid | Length x width x thickness | | 100 x 5 x | | | 50 x 3 x 0.3 | | _ | | 50 x 1 x 1.0 | 100 x 2 x |
| | | 1.5 mm | _ | _ | mm | _ | _ | _ | mm | 2.0 mm | |
| Length x wid | Length x width | | 100 x 5 mm | 50 x 2 mm | 100 x 3 mm | 50 x 3 mm | 50 x 1 mm | 100 x 2 mm | 100 x 3 mm | 50 x 1 mm | 100 x 2 mm |
| Ø x length | Ø x length | | - | - | - | - | 1 x 50 mm | 2 x 100 mm | 3 x 100 mm | - | - |
| Number of p | ieces per pack | et (PCS) | 10 | 20 | 10 | 20 | 20 | 10 | 10 | 20 | 10 |
| | Surface | | | | | | | | | | |
| | structure | | | | | | | | | | |
| 69390 | Fine | ldent. No. | 450 | 200 | 250 | 400 | 300 | 320 | 330 | 100 | 150 |
| 09390 | rine | Unit price, € | O. R. | 0. R. | O. R. | O. R. | 0. R. | O. R. | O. R. | O. R. | 0. R. |

Prod. group 6HD

DEGUSSIT mini files

Complete assortment

| | Surface structure | | |
|-------|-------------------|--------------|-------|
| 40200 | Eine | Ident. No. | 010 |
| 09390 | Fine | Set price, € | O. R. |

Prod. group 6HD



DEGUSSIT grinding files assortment

| 40205 | Ident. No. | 010 |
|-------|--------------|-------|
| 09395 | Set price, € | O. R. |

Prod. group 6HD





Original hard ARKANSAS oil stones

Application:

- For finishing and honing of tools used in optical, watchmakers, engraving and fine mechanics workshops as well as surgical knives and instruments
- Use with light oil or petroleum

Version

Natural size fluctuations possible

Advantage:

The finest and smoothest natural grain structure

ARKANSAS bench stones (single)

type 9010

Technical Data:

■ Number of pieces per packet: 1

| Length x v | vidth x thickness | 3 | | 88 x 43 x 17 mm | 100 x 30 x 12 mm |
|------------|---------------------------------|----------------------|-----------------------------|---------------------|---------------------|
| Length x v | vidth | | | 88 x 43 mm | 100 x 30 mm |
| U | | Surface structure | | | |
| 69450 | In box | Very fine | Ident. No. Unit price, € | 010 O. R. | - |
| 69451 | Bonded into polished wooden box | Very fine | ldent. No. Unit price, € | - | 010 O. R. |
| Length x v | vidth x thickness | 3 | | 125 x 50 x 12 mm | 138 x 45 x 22 mm |
| Length x v | vidth | | | 125 x 50 mm | 138 x 45 mm |
| | | Surface structure | | | |
| 69450 | In box | Very fine | Ident. No. Unit price, € | - | 020 O. R. |
| 69451 | Bonded into polished wooden box | Very fine | ldent. No. Unit price, € | 030 O. R. | - |
| Length x v | vidth x thickness | 3 | | 150 x 50 x 12 mm | 200 x 50 x 12 mm |
| Length x v | vidth | | | 150 x 50 mm | 200 x 50 mm |
| | | Surface structure | | | |
| 69450 | In box | Very fine | Ident. No. Unit price, € | - | - |
| 69451 | Bonded into | Very fine | Ident. No. | 040 | 050 |

Unit price, €

Prod. group 693

polished

69451...



No. 69450



No. 69451

Very fine



ARKANSAS square files

Type 9011

Technical Data:

Number of pieces per packet: 5

| Length x width x thickness | | 95 x 5 x 5 | 95 x 7 x 7 | 95 x 9 x 9 | 95 x 12 x | 138 x 15 x | |
|----------------------------|----------------------|-----------------------------|----------------------|---------------------|---------------------|---------------------|---------------------|
| | | | mm | mm | mm | 12 mm | 15 mm |
| Length x wid | Length x width | | 95 x 5 mm | 95 x 7 mm | 95 x 9 mm | 95 x 12 | 138 x 15 |
| | | | 93 8 3 111111 93 8 | 93 X / IIIIII | 93 % 9 111111 | mm | mm |
| | Surface structure | | | | | | |
| 69452 | Very fine | Ident. No. Unit price, € | 010 O. R. | 020 O. R. | 030 O. R. | 040 O. R. | 070 O. R. |



Prod. group 693

ARKANSAS triangular files

Type 9020

Technical Data:

■ Number of pieces per packet: 5

| Length x w | Length x width | | 95 x 5 mm | 95 x 7 mm | 95 x 9 mm | 95 x 12 mm | 138 x 12 mm | 138 x 15 mm |
|------------|-------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|----------------|---------------------|
| | Surface structure | | | | | | | |
| 69453 | Very fine | Ident. No. Unit price, € | 010 O. R. | 020 O. R. | 030 O. R. | 040 O. R. | 060 (O. R.) | 070 O. R. |





ARKANSAS round and half-round files

type 9030 and type 9040

Technical Data:

■ Number of pieces per packet: 5

| Ø x length | | | 7 x 88 mm | 9 x 88 mm | - |
|----------------|-------------------|-----------------------------|---------------------|---------------------|---------------------|
| Length x width | | | - | - | 88 x 7 mm |
| | Surface structure | | | | |
| 69454 | Very fine | ldent. No. Unit price, € | 020 O. R. | 030 O. R. | - |
| 69455 | Very fine | Ident. No. Unit price, € | - | - | 020 O. R. |







No. 69455

ARKANSAS oil stones

type 9010 A 4, type 9010 D, type 903 0B

Technical Data:

Number of pieces per packet: 1

| Length x width x t | hickness | 110 x 43 x 12 | 88 x 23 x 5 mm | | |
|--------------------|-------------|-------------------|-----------------------------|---------------------|---------------------|
| Length x width | | mm 110 x 43 mm | 88 x 23 mm | | |
| | | Surface structure | | | |
| 69457 | Gouge stone | Very fine | Ident. No. Unit price, € | 020 O. R. | - |
| 69458 | Slip stone | Very fine | Ident. No. Unit price, € | - | 010 O. R. |





No. 69458



Schleiffix cleaners

Application:

For cleaning, polishing, smoothing, dulling and grinding of tools and devices.

Execution:

- Flexible hand sanding block with elastically bonded abrasive grain
- Suitable for wet and dry sanding

scope of supply and services:

Technical Data:

- Length: 80 mm
- Width: 50 mm ■ Thickness: 20 mm
- Number of pieces per packet: 1

| Grid size | | 60 | 120 | 240 |
|-------------------|---------------|-------|--------|-------|
| Surface structure | | Rough | Medium | Fine |
| 69358 | Ident. No. | 010 | 020 | 030 |
| 09330 | Unit price, € | O. R. | O. R. | O. R. |



Ident, No. 010

Prod. group 6DB



Honing tools

The solution for demanding tasks in the precision processing

Honing is used during fine finishing, in particular throughout the entire metalworking industry and in series and piece production, where high demands are made on size, shape and surface quality. It is primarily cylindrical bores that are honed. In addition to dimensional accuracy, geometrical accuracy and surface quality are further reasons to use honing tools for close-tolerance bores. Almost all materials can be processed using honing tools.

Depending on the number of the units to be produced, the hand-honing tools can be used on lathes and boring mills or on honing machines with hydraulic expansion.

Cylinder honing devices

suitable for free-hand use with hand drills

For easy honing of bores and cylinder linings with hand-operated machines.

Execution:

- Driven by a flexible shaft, with holder for commercial drill chucks
- Self-expanding honing arms

■ The contact force can be adjusted with an adjusting screw

Advantage:

- Due to the self-expanding honing arms, the honing devices automatically adjust to the workpiece
- Uniform grinding over the entire surface is guaranteed even when using a hand drill

| Suitable for min./max. cylinder Ø | | 25-45 mm | 22-50 mm | 35-80 mm | 50-135 mm | 50-175 mm |
|--------------------------------------|---------------|----------|----------|----------|-----------|-----------|
| Type description | | CF 64 | CF 63 | CF 68 | CF 60 | CF 62 |
| Number of arms (PCS) | | 2 | 3 | 3 | 3 | 3 |
| Segment length | n (mm) | 28 | 28 | 50 | 75 | 100 |
| Length (mm) | | 200 | 205 | 225 | 270 | 300 |
| 69540 | Ident. No. | 010 | 020 | 030 | 040 | 050 |
| 09340 | Unit price, € | O. R. | O. R. | O. R. | O. R. | O. R. |



Replacement segments

For cylinder honing devices

Application:

As replacement for cylinder honing device.

scope of supply and services:

Incl. the necessary fittings

Advantage:

■ Can be replaced easily by hand

Technical Data:

■ Min./max. grain size: 180-220 µm

| Type description | on | CF 64 | CF 63 + 68 A | CF 63 + 68 A | CF 60-CS | CF 62-CS + 69 |
|-----------------------------------|----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Suitable for type | | CF 64 | CF 63 | CF 68 | CF 60 | CF 62 |
| Length (mm) | Length (mm) | | 28 | 50 | 75 | 100 |
| Number of pieces per packet (PCS) | | 2 | 3 | 3 | 3 | 3 |
| 69540 | ldent. No. Set price, € | 210 O. R. | 220 O. R. | 230 O. R. | 240 O. R. | 250 O. R. |









For dry and wet grinding on all common sanding machines

For grinding cemented carbide and Cermet as well as materials made of stone, glass, porcelain, graphite, GFP, etc.

Execution:

- With vibration-reducing body
- In synthetic resin bonding

Advantage:

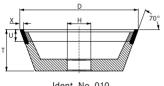
Maximum service life with consistently high removal rate

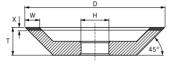
Wet grinding is always preferable with regard to tool life, heat generation and performance.

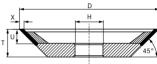
Technical Data:

- Washer diameter: 100 mm
- Bore diameter: 20 mm
- Grid size: D 126
- Wall thickness: 10 mm
- Min./max. recommended peripheral surface speed for dry sanding: 15-20 m/s
- Min./max. recommended peripheral surface speed for wet sanding: 25-30









Ident. No. 010 Type 11V9

Ident. No. 020 Type 12A2

Ident. No. 030 Type 12V2

Ident. No. 040 Type 12V9

| Form | | | 11V9 | 12A2 | 12V2 | 12V9 |
|-----------------------|-----------------------------|-----------------------------|---------------------|---------------------|---------------------|---------------------|
| Washer thickness (mm) | | | 35 | 26 | 20 | 20 |
| Lining thickness (mm) | | 3 | 4 | 2 | 3 | |
| | Material of abrasive medium | | | | | |
| 60197 | Diamond | Ident. No. Unit price, € | 010 O. R. | 020 O. R. | 030 O. R. | 040 O. R. |

Prod. group 696

Single diamond dressing tools

For dressing ceramic grinding wheels

DIN 228

Application:

Suitable for all machines with corresponding holder. Chucking: Angle of the dressing tool to the middle of the grinding wheel must be between 5° and 15° If the sharpness decreases, revolve the dressing tool approx. $60\,^\circ$ about its own axis. Do this in good time: the blunt surface should be no greater than approx. 0.5 mm²

Execution:

Single diamond with protruding working tip

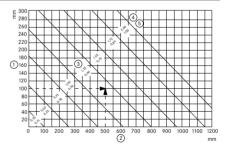
■ 2-4 natural tips (quality 3)

Notes:

Holder for manual dressing of grinding wheels, see no. 61220

- Shank style: Morse taper
- DIN: 228
- Min./max. side feed per revolution: 0.05-0.15 m/s
- Min./max supply per throughput: 0.01-0.03 mm
- Number of pieces per packet: 1

| • | | 0 | ibor or process per pasic | | |
|----------------------|---------------|-------|---------------------------|-------|--|
| | | | | | |
| Morse taper size | | MK 0 | MK 1 | MK 1 | |
| Weight of diamond (d | carat) | 0.5 | 0.5 | 1.0 | |
| 61124 | Ident. No. | 050 | 350 | 400 | |
| 01124 | Unit price, € | O. R. | O. R. | O. R. | |
| Prod. group 610 | | | | | |





Ident. No. 350-400

Multi-grain dressing tools

for dressing straight sanding discs

Application:

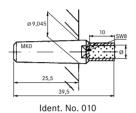
Ident. No. 010: For all ceramic grinding wheels Chucking: Dressing tool is clamped vertical to the spindle axis

When using for the first time, it is recommended that several strokes are effected at an increased feed rate

For particularly aggressive, hard abrasive compounds, a more hard-wearing dressing tool bond R is available on request

Ident. No. 015–025: For all ceramic grinding wheels

Chucking: Dressing tool is clamped vertical to the spindle axis



Design MK0

When using for the first time, it is recommended that several strokes are effected at an increased feed rate

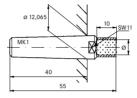
For particularly aggressive, hard abrasive compounds, a more hard-wearing dressing tool bond R is available on request

Execution:

 With cylindrical, sintered diamond insert with many working tips

Advantage:

- Maintenance-free over the entire service life
- Robust and hard-wearing where handled incorrectly



Ident. No. 015, 025 Design MK1

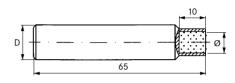
- Can be used up fully
- For use with higher dressing traverse speed than single diamonds

Notes

Ident. No. 015, 025: Holders for manual dressing or for grinding wheels on grinding attachments for lathes see no. 61220

Technical Data:

- Min./max supply per throughput: 0.01-0.03 mm
- Min./max. side feed per revolution: 0.3-0.5 m/s
- Number of pieces per packet: 1



Ident. No. 020 Cylindrical design

| Ø (mm) | | 8 | 8 | 8 | 11 |
|---------------------------------------|---------------|-------------|-------------|-------------|-------------|
| Shank style | | Morse taper | Morse taper | Cylindrical | Morse taper |
| Morse taper size | | MK 0 | MK 1 | - | MK 1 |
| DIN | | 228 | 228 | - | 228 |
| Weight of diamond (carat) | | 2.5 | 2.5 | 2.5 | 5.0 |
| Suitable for min./max. sanding disc Ø | | 150-400 mm | 150-400 mm | 150-400 mm | 400-600 mm |
| Suitable for min./max. sandin | g disc width | 20-80 mm | 20-80 mm | 20-80 mm | 0-300 mm |
| 61200 | Ident. No. | 010 | 015 | 020 | 025 |
| 61200 | Unit price, € | O. R. | O. R. | O. R. | O. R. |

Prod. group 610

Grinding wheel dressing tool

Made of steel

Application:

For dressing straight grinding wheels.

Execution

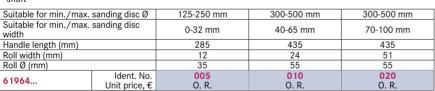
- Sharpening roller consists of specially hardened discs made of Swedish steel that are joined together and equipped with U-shaped teeth
- Sharpening roller runs on hardened, lubricated shaft

Advantage:

• The teeth retain their sharpness and hardness until the wheel is completely worn down.

Technical Data:

■ Number of pieces per packet: 1





| · · · · · · · · · · · · · · · · · · · | | | | | |
|---|-----------------------------|--------------|--------------|--------------|--|
| Accessories for | | 61964 005 | 61964 010 | 61964 020 | |
| 61965 Replacement sharp- ening roller For grinding wheel dressing tools | ldent. No. Unit price, € | 005 O. R. | 010 O. R. | 020 O. R. | |





HAHN+KOLB

Sanding disc dressing tool

Application:

For dressing grinding wheels.

Execution:

 With rotating, tapered silicon carbide dressing cup mounted on ball bearings, rough-grained and hard

- Comprising round steel handle
- Ident. No. 020-030: Dressing cup with sheet steel jacket
- Ident. No. 030: Tapered fixing thread with screw



| Size | | 00 | 0 | 1 |
|-----------------------------------|---------------|-------|-------|-------|
| Handle length (mm) | | 100 | 230 | 230 |
| Handle Ø (mm) | | 22 | 30 | 30 |
| Fastening thread | | M6 | M10 | - |
| Roll Ø (mm) | | 35 | 45 | 55 |
| Number of pieces per packet (PCS) | | 1 | 1 | 1 |
| 61955 | Ident. No. | 010 | 020 | 030 |
| 01900 | Unit price, € | O. R. | O. R. | 0. R. |

Prod. group 694

| Accessories for | | 61955 010 | 61955 020 | 61955 030 |
|--|-----------------------------|--------------|--------------|--------------|
| 61956 Replacement dressing cup For grinding wheel dressing tools | Ident. No. Unit price, € | 010 O. R. | 020 O. R. | 030 O. R. |

Diamond saving dressers

Consisting of rough-grained, hard silicon carbide dressing rod in plastic sleeve

Application:

As a cost-effective alternative to dressing diamonds.

| Outer Ø (mm) | | 25 |
|-----------------------------|---------------|-------|
| Length (mm) | 370 | |
| Material of the grip handle | Wood | |
| 61950 | Ident. No. | 020 |
| 81950 | Unit price, € | O. R. |





DIN 525

Silicon carbide rubbing stones

Type 9010, grain size 20

For dressing grinding wheels.

| Length x width x h | eight | 100 x 25 x 13 | 100 x 50 x 25 | 150 x 50 x 25 | 200 x 50 x 25 |
|--------------------|---------------|---------------|---------------|---------------|---------------|
| | | mm | mm | mm | mm |
| 69332 | Ident. No. | 010 | 015 | 025 | 035 |
| 09332 | Unit price, € | O. R. | O. R. | O. R. | O. R. |

Prod. group 690

Application:





Dressing stone for diamond and boron nitride grinding wheels

■ Ident. No. 020: for P-shape cup wheels

Type 9010, grain size 180

Application:

For dressing diamond and boron nitride grinding wheels.

Execution:

- Made of white corundum
- Unground

| Length x width x height | | 100 x 25 x 13 mm | | | |
|-------------------------|---------------|------------------|--|--|--|
| 60597 | ldent. No. | 010 | | | |
| 00597 | Unit price, € | O. R. | | | |
| Dood array (01 | | | | | |

Prod. group 601





Diamond multi-grain hand dressing tools

for precise dressing and profiling of ceramic sanding discs

• Ident. No. 010: For T-shaped peripheral wheels

| Form | | T | Р | | | |
|---------------------------|---------------|-----|-----|--|--|--|
| Lining length (mm) | | 25 | 25 | | | |
| Lining width (mm) | | 8 | 8 | | | |
| Length (mm) | | 200 | 200 | | | |
| Weight of diamond (carat) | | 1.5 | 1.5 | | | |
| 61230 Ident | | 010 | 020 | | | |
| 01230 | Ilnit nrice € | O R | O R | | | |

Prod. group 601



Ident. No. 020 Type P



Boron carbide hand lapping tools

Covering thickness 5 mm

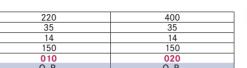
Application:

For honing tools of every kind, suitable in particular for cemented carbide and oxide ceramics.



■ Hard-wearing and shape-retaining

| Grain size (µm) | | 220 | 400 |
|--------------------|---------------|-------|-------|
| Lining length (mm) | | 35 | 35 |
| Lining width (mm) | | 14 | 14 |
| Length (mm) | | 150 | 150 |
| 60420 | ldent. No. | 010 | 020 |
| 69420 | Unit price, € | O. R. | O. R. |





Prod. group 693

Boron carbide hand lapping tools

Covering thickness 10 mm

Application:

For honing tools of every kind, suitable in particular for cemented carbide and oxide ceramics.

Advantage:

■ With a particularly good, firm grip

| Grain size | (µm) | 180 | 220 | 360 | 500 |
|--------------------|---------------|-------|-------|-------|-------|
| Lining length (mm) | | 60 | 60 | 60 | 60 |
| Lining width (mm) | | 20 | 20 | 20 | 20 |
| Length (mm) | | 120 | 120 | 120 | 120 |
| 69425 | Ident. No. | 005 | 010 | 020 | 030 |
| 09425 | Unit price, € | O. R. | 0. R. | 0. R. | O. R. |





Movable floor roll dispenser

Application:

For attachment of rubbish bags and paper towels.

Mobile

■ Painted blue

Execution:

■ Suitable for roll width up to 42 cm

| 69726 | Ident. No. | 010 |
|-------|---------------|-------|
| 09/20 | Unit price, € | O. R. |

Prod. group 650

| | Accessories for | | | 69726 010 |
|-------|----------------------|---|-----------------------------|--------------|
| 69726 | Garbage bags | | Ident. No. Unit price, € | 020 O. R. |
| (070) | D | Sheet size 36 x 24 cm, diam- eter 38.5 cm | Ident. No. Unit price, € | 110 O. R. |
| 69726 | Paper towels On roll | Sheet size 36 x 36 cm, diam- eter 37.5 cm | Ident. No. Unit price, € | 120 O. R. |



Cleaning blocks, PORAFLEX

for finest care and cleaning of sensitive tools, equipment and surfaces.

For the finest care and cleaning of delicate tools, devices and surfaces.

Execution:

Acid and rubber-free

Advantage:

- Polishes delicate materials such as stainless steel or Ceran
- Re-oxidation is prevented by special additives

- Length x width x height: 40 x 25 x 12 mm
- Container: Block







Ident. No. 010



Scotch Brite™ high-performance microfibre cloths

Grease and dirt absorption up to 100 times higher than for conventional cleaning cloths

Application:

High-performance cloth for dry and wet cleaning of all surfaces

Execution:

■ Cloth size 32 x 36 cm

■ Removes dust, dirt, grease and fingerprints without the use of chemicals

| 69728 | ldent. No. Price/pack, € | 120 O. R. |
|-------|-----------------------------|---------------------|
|-------|-----------------------------|---------------------|

Prod. group 6RM

■ Machine-washable at 95°C

scope of supply and services:

1 pack = 5 cloths

Technical Data:

■ Length x width: 320 x 360 mm

■ Colour: Blue

■ Type: Single cloths



All-purpose wiping clothes

Application:

Towels and wash cloths for cleaning oily surfaces, and caring for and polishing surfaces.

Execution:

- Ident. No. 110:
 - Made of 100% polypropylene
- Silicone-free
- Ident. No. 110-120: Solvent-resistant
- Ident. No. 120-130: Very soft

■ Ident. No. 130: Silicone and solvent-resistant

Advantage:

- Ident. No. 110:
- Absorbent
- Washable and reusable
- Food-safe
- Tear-proof
- Ident. No. 110-120: Lint-free
- Ident. No. 120-130:



Ident. No. 120

■ Extremely absorbent

■ Textile-like

scope of supply and services:

Ident. No. 110: 1 pack = 35 cloths **Ident. No. 120:** 1 pack = 40 cloths **Ident. No. 130:** 1 pack = 25 cloths

Technical Data:

■ Type: Single wipes



Ident. No. 130

| Length x width | | 400 x 420 mm | 340 x 380 mm | 340 x 380 mm |
|----------------|---------------|--------------|--------------|--------------|
| Colour | | Blue | Blue | White |
| 69729 | Ident. No. | 110 | 120 | 130 |
| | Price/pack, € | O. R. | O. R. | O. R. |

Prod. group 650

Moist cleaning cloths in a dispensing bucket

For skin, tools and machines

Application:

Skin-friendly hand cleaning cloths remove heavy soiling without soap and water.

Ident. No. 110

Execution:

With pleasant fresh orange scent

Advantage:

Removes paint, grease, oil, dye, tar, adhesive

| | ldent. No. | 030 |
|---------|---------------|-----|
| 69748 | Unit price, € | |

Prod. group 650

• Soft on both sides and yet also abrasive

scope of supply and services:

1 bucket = 72 cloths

- Length x width: 250 x 250 mm Colour: Blue
- Type: Dispensing bucket





Universal fabric adhesive tape 1909

Multipurpose waterproof adhesive tape

For universal applications, such as bundling, fastening or repairing.

Execution:

- Watertight
- Adhesive rubber resin
- Polyethylene-coated fabric

Advantage:

- Good handling
- Can easily be torn by hand

- Very good adhesion on different surfaces
- Temperature resistant up to 60°C

Notes:

We recommend you request the safety data sheet with your first order.

Technical Data:

- Type description: 1909
- Width of tape x length of strap: 50 mm x 50 m
- Adhesive tape backing material: PE-coated fabric
- Type of adhesive: Rubber/resin

| • | Breaking | elongation: | 12 % |
|---|----------|-------------|------|



Ident, No. 110

| Colour | | Silver grey | Black |
|---------------|---------------|-------------|-------|
| 69771 | Ident. No. | 110 | 120 |
| 09//1 | Unit price, € | O. R. | O. R. |
| Prod. group 6 | RM | | |

Premium fabric adhesive tape 389

temperature-resistant up to 70 °C, watertight, very high long-term adhesive force

Application:

For industrial applications, such as marking, strengthening, repairing, sealing joints and airconditioning ducts.

Execution:

- Watertight
- Adhesive rubber resin
- Polyethylene-coated rayon fabric

- Adapts easily for use on uneven surfaces
- Can easily be torn by hand

- High adhesion properties
- Temperature resistant up to 70°C

Notes:

We recommend you request the safety data sheet with your first order.

Technical Data:

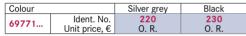
- Type description: 389
- Width of tape x length of strap: 50 mm x 50 m
- Adhesive tape backing material: PE-coated fabric
- Type of adhesive: Rubber/resin
- Breaking elongation: 6 %





Ident, No. 220

Ident. No. 230



Prod. group 6RM



UV-resistant premium fabric adhesive tape 8979

up to 6 months removal without residue

For strengthening, bundling, insulating and marking, for indoor and outdoor applications.

Execution:

- Moisture-resistant
- Abrasion-resistant
- Flexible
- Adhesive rubber resin
- Polyethylene-coated fabric
- Cured rubber resin adhesive

Advantage:

• Can be removed without residue after up to 6 months

| 40771 | Ident. No. | 180 |
|-------|---------------|-------|
| 69771 | Unit price, € | O. R. |

Prod. group 6RM

- UV-resistant
- Temperature resistant up to 90°C

We recommend you request the safety data sheet with your first order.

- Type description: 8979
- Width of tape x length of strap: 48 mm x 48 m
- Colour: Blue
- Adhesive tape backing material: PE-coated fabric
- Type of adhesive: Rubber/resin
- Breaking elongation: 21 %





Double-faced adhesive tape 9527

Synthetic rubber adhesive tape with high initial tack

Application:

For gluing sheet material such as foam, rubber or felt

Execution:

- Synthetic rubber adhesive
- With paper fleece backing

Advantage:

- Excellent immediate adhesion
- Easily soluble protective paper
- Good adhesion on low-energy materials

| 69771 | Ident. No. Unit price, € | 310 O. R. |
|-------|-----------------------------|---------------------|
|-------|-----------------------------|---------------------|

Prod. group 6RM

■ Temperature resistant up to 50°C

Notes:

We recommend you request the safety data sheet with your first order.

Technical Data:

- Type description: 9527
- Width of tape x length of strap: 50 mm x 50 m
- Colour: White
- Breaking elongation: 0 %





Soft aluminium adhesive tapes 431

Application:

For sealing, for heat and light reflection, for covering of surfaces for aluminium anodising and as a moisture barrier.

Execution:

- Acrylate adhesive
- Thin, soft aluminium

Advantage:

- High ageing stability
- Good resistance to chemicals
- Strong heat and light reflection

- Temperature-resistant from -55 °C to +155°C
- Low flammability (class L)

Notes

We recommend you request the safety data sheet with your first order.

Technical Data:

- Type description: 431
- Colour: Silver grey
- Type of adhesive: Acrylate
- Min./max. temperature resistance: -55 bis 155 °C
- Breaking elongation: 5 %

■ Breaking elongation: 170 %



| Width of tape x length of strap | | 25.0 mm x 55 m | 50 mm x 55 m |
|---------------------------------|---------------|----------------|--------------|
| 69771 | Ident. No. | 380 | 390 |
| | Unit price, € | U. R. | U. R. |

Prod. group 6RM

Technical Data:



Temflex™ PVC electrical insulating tapes

EN standard DIN EN 60454-3-1

| Width of tang y langth of atron | 15 mm x | | 15 mm x | | 191 | mm x |
|---------------------------------|-------------|-------|---------|-------|-------|-------|
| Width of tape x length of strap | 25 m | | 10 m | | 25 m | |
| Colour | | | | | 69772 | |
| | | | | | ID no | |
| Black | | O. R. | 220 | O. R. | 235 | O. R. |
| Blue | | O. R. | 225 | O. R. | 240 | O. R. |
| | 11-21-2-2-6 | | | | | |

Prod. group 6RM



Ident. No. 205, 220,

Ident. No. 210, 225, 240



Scotch® PVC adhesive packing tape 6890

high-quality, low-noise packaging tape

Application:

For gluing medium-heavy cardboard packaging.

Execution

■ Natural rubber adhesive

Advantage:

- Humidity-resistant and resistant to chemicals
- Silent unrolling
- Can be torn off by hand

Notes:

We recommend you request the safety data sheet with your first order.

Technical Data:

- Type description: 6890
- Width of tape x length of strap: 50 mm x 66 m
- Type of adhesive: Natural rubber
- Breaking elongation: 75 %





Ident. No. 485

Ident. No. 490

| Colour | | Brown | Transparent |
|--------|---------------|------------|-------------|
| 69772 | ldent. No. | 485 | 490 |
| | Unit price, € | O. R. | O. R. |

Prod. group 6RM

| Accessories for | | 69772 485 | 69772 490 |
|---|---------------|-----------|-----------|
| 69772 Scotch HE 180 hand roller for Scotch PVC package adhesive tape 6890 | ldent. No. | 650 | 650 |
| | Unit price, € | O. R. | O. R. |

Hand rollers for adhesive tapes

Ideal for continuous use

Application:

For use with package adhesive tapes with a length of 66 mm and width of 50 mm.

Execution:

■ With notch trigger

| 69772 | Ident. No. | 601 |
|-------|---------------|-------|
| | Unit price, € | O. R. |

Prod. group 686

■ Two pressure rollers

Advantage:

■ Extremely robust





Hazard warning tapes 766i/767i

All-purpose soft PVC adhesive tape for use on many surfaces

Application:

Prominent adhesive tape to clearly identify hazards.

Execution:

- Adhesive rubber resin
- Soft PVC fabric
- Solvent-resistant

Advantage:

- Highly resistant to abrasion
- High colour quality

| High | elasticity |
|------------------------|------------|
|------------------------|------------|

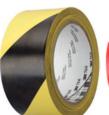
Supple even on uneven surfaces

We recommend you request the safety data sheet with your first order.

Technical Data:

- Type description: 766i
- Width of tape x length of strap: 50 mm x 33 m
 Breaking elongation: 180 %







Ident. No. 505

Ident. No. 515



Prod. group 6RM

Tube-shaped markers

with steel ball valve

Application:

Writes on all materials – dusty, rough, oily or moist.

Execution:

- With steel ball valve
- 3-mm type width
- Still legible after extreme temperatures
- Contains a non-toxic dye

Advantage:

- Permanent
- Very economical consumption due to ball point in the tube tip



Waterproof

■ Weather-resistant

■ Resistant to wiping and abrasion

We recommend you request the safety data sheet with your first order.

Technical Data:

- Line thickness: 3 mm
- Contents: 50 ml



Ident. No. 010

| Colour | | White | Yellow | Red | Black |
|--------|---------------|-------|--------|-------|-------|
| 69794 | Ident. No. | 010 | 020 | 030 | 040 |
| | Unit price, € | O. R. | O. R. | O. R. | O. R. |

Prod. group 6RK

Board and lardstone chalks

Application:

No. 69796: For marking indoors and outdoors. No. 69797: For heat-resistant labelling on metal.

Execution:

■ No. 69796:

Square shape ■ In paper sleeve

Advantage:

■ No. 69797: For labels up to 2000°C as for welding work

scope of supply and services:

No. 69796: 12 pieces in box

Technical Data:

■ Colour: White

| 69796 | 69797 | |
|---------------|-----------|--|
| ID no. | ID no. | |
| 010 O. R. | 010 O. R. | |
| Price/pack, € | | |

