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# TECNIMETAL

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## METALLOGRAPHY

**C**UTTING

**M**OUNTING

**P**OLISHING

**C**LEANING

**M**ICROSCOPY

C O N S U M A B L E S

# TÉCNICAS DE MEDIDA Y METALOGRAFÍA SA

**QUALITY - COMPETITIVE PRICES - QUICK DELIVERIES**

¡Más de 40 años de experiencia para nuestros clientes! Encontrará nuestros productos estándar en este catálogo, así como nuevos consumibles para ayudar a mejorar la preparación de materiales. Para cualquier producto o equipo no incluido en este catálogo, no dude en preguntar.



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## CUTTING



### Resinoid Cutting Discs - box of 10

| Item | Ø mm       | Abrasive | Applications                              | Ref. N°  |
|------|------------|----------|---|----------|
| NX10 | 250x1,6x32 | Al2O3    | Standard Steels                           | 10250115 |
| NX20 | 250x1,6x32 | Al2O3    | Hard & medium Steels                      | 10250120 |
| NX30 | 250x1,6x32 | Al2O3    | Very Hard Steels                          | 10250130 |
| NX70 | 250x1,6x32 | SIC      | Non Ferrous Material, Titanium, Cast Iron | 10250170 |
| NX10 | 300x2x32   | Al2O3    | Standard Steels                           | 10300110 |
| NX20 | 300x2x32   | Al2O3    | Hard & medium Steels                      | 10300120 |
| NX30 | 300x2x32   | Al2O3    | Very Hard Steels                          | 10300130 |
| NX10 | 350x2,5x32 | Al2O3    | Standard Steels                           | 10350110 |
| NX20 | 350x2,5x32 | Al2O3    | Hard & medium Steels                      | 10350120 |
| NX30 | 350x2,5x32 | Al2O3    | Very Hard Steels                          | 10350130 |
| NX30 | 400x3x32   | Al2O3    | Very Hard Steels                          | 10400130 |

**Other diameter  
under request**

### Resinoid & Rubber Ultrafine Cutting Discs - box of 10

| Item | Ø mm         | Abrasive | Applications                     | Ref. N°  |
|------|--------------|----------|----------------------------------|----------|
| NX80 | 180x0,5x25,4 | SiC      | Fragile materials, Resinoid bond | 10180210 |

### Cooling and anti-rust liquid

| Item | Quantity | Mix   | Applications             | Ref. N°  |
|------|----------|-------|--------------------------|----------|
| XAR4 | 1 l      | 4%    | Cooling & Anti-oxydation | 15001100 |
| XAR4 | 2,5 l    | 4%    | Cooling & Anti-oxydation | 15025100 |
| XAR4 | 5 l      | 4%    | Cooling & Anti-oxydation | 15050100 |
| XAR4 | 10 l     | 4%    | Cooling & Anti-oxydation | 15100100 |
| XAS2 | 0,5 l    | 0,20% | Anti-septic              | 15005110 |

### Cutting fluid for micro-cutting machines

| Item | Quantity | Mix | Applications                 | Ref. N°  |
|------|----------|-----|------------------------------|----------|
| XACF | 1 l      | 4%  | Anti-oxydation & lubrication | 15001120 |
| XACF | 2,5 l    | 4%  | Anti-oxydation & lubrication | 15025120 |
| XACF | 5 l      | 4%  | Anti-oxydation & lubrication | 15050120 |
| XACF | 10 l     | 4%  | Anti-oxydation & lubrication | 15100120 |





## Diamond Cutting discs - Metal Bond - box of 1

| Item | Ø mm         | Abrasive | Applications          | Ref. N°  |
|------|--------------|----------|-----------------------|----------|
| XDLM | 100x0,5x12,7 | Diamond  | Ceramic, Glass, Stone | 12100100 |
| XDLM | 125x0,5x12,7 | Diamond  | Ceramic, Glass, Stone | 12125100 |
| XDLM | 150x0,6x12,7 | Diamond  | Ceramic, Glass, Stone | 12150100 |
| XDLM | 178x0,7x12,7 | Diamond  | Ceramic, Glass, Stone | 12175100 |
| XDLM | 200x0,9x32   | Diamond  | Ceramic, Glass, Stone | 12200100 |
| XDLM | 250x1,2x32   | Diamond  | Ceramic, Glass, Stone | 12250100 |
| XDLM | 300x1,4x32   | Diamond  | Ceramic, Glass, Stone | 12300100 |

## Diamond Cutting discs - Resin Bond - box of 1

| Item | Ø mm         | Abrasive | Applications             | Ref. N°  |
|------|--------------|----------|--------------------------|----------|
| XDLR | 100x0,5x12,7 | Diamond  | Carbides, Hard Materials | 12100120 |
| XDLR | 125x0,5x12,7 | Diamond  | Carbides, Hard Materials | 12125120 |
| XDLR | 150x0,6x12,7 | Diamond  | Carbides, Hard Materials | 12150120 |
| XDLR | 178x0,7x12,7 | Diamond  | Carbides, Hard Materials | 12175120 |
| XDLR | 200x0,9x32   | Diamond  | Carbides, Hard Materials | 12200120 |
| XDLR | 250x1,2x32   | Diamond  | Carbides, Hard Materials | 12250120 |
| XDLR | 300x1,4x32   | Diamond  | Carbides, Hard Materials | 12300120 |

**HIGH  
QUALITY  
DIAMOND  
DISCS**

**NEW  
LOWER PRICES ON  
SOME REFERENCES**

## CBN Cutting discs - Resin bond - box of 1

| Item | Ø mm         | Abrasive | Applications            | Ref. N°  |
|------|--------------|----------|-------------------------|----------|
| XCBN | 100x0,5x12,7 | CBN      | Hard & very hard steels | 12100130 |
| XCBN | 125x0,5x12,7 | CBN      | Hard & very hard steels | 12125130 |
| XCBN | 150x0,6x12,7 | CBN      | Hard & very hard steels | 12150130 |
| XCBN | 178x0,7x12,7 | CBN      | Hard & very hard steels | 12175130 |
| XCBN | 200x0,9x32   | CBN      | Hard & very hard steels | 12200130 |
| XCBN | 250x1,2x32   | CBN      | Hard & very hard steels | 12250130 |
| XCBN | 300x1,4x32   | CBN      | Hard & very hard steels | 12300130 |

*Customized discs  
under request*

**VERY HIGH  
QUALITY**



## Dressing stone for Diamond cutting discs - box of 1

| Item | mm        | Abrasif                        | Applications        | Ref. N°  |
|------|-----------|--------------------------------|---------------------|----------|
| XDSM | 50x25x200 | Al <sub>2</sub> O <sub>3</sub> | For metal bond disc | 12900100 |
| XDSR | 50x25x200 | Al <sub>2</sub> O <sub>3</sub> | For resin bond disc | 12900110 |



# COLD MOUNTING RESINS

A wide range of cold mounting resins for all types of applications:

## ACRYLIC

*The best choice when hot mounting is not possible: XF25*

**HIGH QUALITY ACRYLIC RESINS**



- XF10:** translucent or very clear under pressure
- XF15:** green, harder and faster
- XF25:** blue, hard resin, no shrinkage
- XF70:** black, conductive resin

## EPOXY



**XF40 + XH40:** highly transparent

*Certainly the best Epoxy on the market*



## POLYESTER

**XF60:** transparent

*Non expensive resin*

## ACCESSORIES:

Mould, Clip, Trioclip, Engraver...





## Cold mounting resins technical specifications

| Item      | Type      | Colour | Specifications                             | Components    | Mixing ratio by weight | Curing time at 25°C | Top T° | Shrinkage |
|-----------|-----------|--------|--|---------------|------------------------|---------------------|--------|-----------|
| XF10      | Acrylic   | ○      | translucent or clear under pressure        | Powder/liquid | 2P: 1 l                | 10 min.             | 84 °C  | ☆☆        |
| XF15      | Acrylic   | ●      | very hard and resistant                    | Powder/liquid | 2P: 1 l                | 5 min.              | 80 °C  | ☆☆☆       |
| XF25      | Acrylic   | ●      | gap free embedding by expansion, very hard | Powder/liquid | 2P: 1 l                | 12 min.             | 85 °C  | ☆☆☆☆      |
| XF70      | Acrylic   | ●      | electrically conductive                    | Powder/liquid | 1P: 1 l                | 18 min.             | 105 °C | ☆☆        |
| XF40+XH40 | Epoxy     | ○      | very clear, top quality                    | Liquid/liquid | 12 %                   | 8 to 12 hours       | 45 °C  | ☆☆☆☆      |
| XF60      | Polyester | ○      | non expensive                              | Liquid/liquid | 2 %                    | 120 min.            | 75 °C  | ☆         |

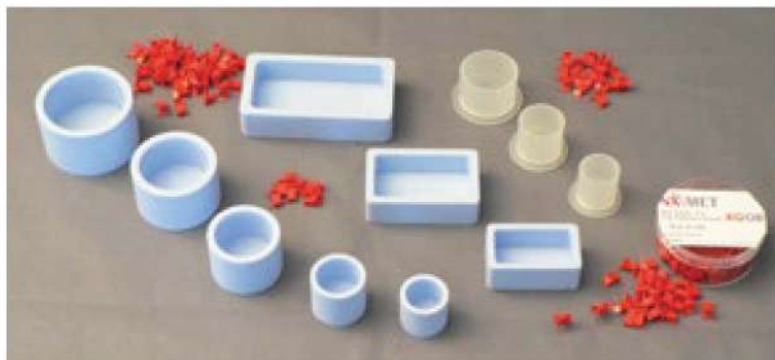
## Cold Mounting Resins

| Item | Time         | Quantity     | Applications   | Ref. N°       |
|------|--------------|--------------|--|---------------|
| XF10 |              | Powder 1 kg  |  | 25001110      |
| XF10 |              | Powder 10 kg |  | 25010110      |
| XF10 | 10 min       | Liquid 0,5 l | ACRYLIC Translucent<br>Clear when use with pressure chamber (NXPV) | 25001210      |
| XF10 |              | Liquid 1 l   |  | 25002210      |
| XF10 |              | Liquid 5 l   |  | 25005210      |
| XF15 | 8 min        | Powder 1 kg  |  | ACRYLIC Green |
| XF15 |              | Liquid 0,5 l | Hard filled resin  | 25001215      |
| XF25 |              | Powder 1 kg  | ACRYLIC Blue   | 25001125      |
| XF25 | 12 min       | Liquid 0,5 l | No shrinkage, very hard resin                                      | 25001225      |
| XF25 |              | Liquid 1 l   | The best choice when hot mounting is not possible                  | 25002225      |
| XF40 |              | Liquid 1 l   | EPOXY HQ   | 25001140      |
| XH40 | 12 h @ 25 °C | 250 ml       | Hardener for XF40 (120 ml for 1 l)                                 | 25001240      |
| XF60 | 2 h @ 25 °C  | 1 kg + 30 g  | POLYESTER, Transparent   | 25001160      |



# ACCESSORIES FOR COLD MOUNTING

| Item | Ø mm x H mm   | Quantity   | Applications   | Ref. N°  |
|------|---------------|------------|--|----------|
| XSIL | Ø 25 x23      | Box of 5   | High Quality Silicon mould                             | 27025105 |
| XSIL | Ø 30 x25      | Box of 5   | High Quality Silicon mould                             | 27030105 |
| XSIL | Ø 40 x30      | Box of 5   | High Quality Silicon mould                             | 27040105 |
| XSIL | Ø 50 x30      | Box of 3   | High Quality Silicon mould                             | 27050103 |
| XSIL | Ø 60 x35      | Box of 3   | High Quality Silicon mould                             | 27060103 |
| XSIL | 55x30x22      | Box of 3   | High Quality Silicon mould                             | 27065103 |
| XSIL | 70x40x22      | Box of 3   | High Quality Silicon mould                             | 27070103 |
| XSIL | 100x50x22     | Box of 3   | High Quality Silicon mould                             | 27075103 |
| XPOL | Ø 25 x 27     | Box of 5   | Polypropylene mould                                    | 27025205 |
| XPOL | Ø 30 x 27     | Box of 5   | Polypropylene mould                                    | 27030205 |
| XPOL | Ø 40 x 27     | Box of 5   | Polypropylene mould                                    | 27040205 |
| XLIP | Plastic clip  | Box of 100 | Red plastic clip                                       | 27500100 |
| XLIP | Plastic clip  | Box of 100 | Mixed colour plastic clip<br>(Green, Black, Blue, Red) | 27500101 |
| XLIP | Clip TRIOCLIP | Box of 100 | NEW Plastic clip with 3 tracks                         | 27500105 |
| XLIP | Metallic clip | Box of 100 | Stainless steel clip                                   | 27500510 |
| XAIR |               | 530 ml     | Compressed air, 100% ozone safe                        | 27600570 |
| NXPV | Pressure pot  | 1 Unit     | Pressure vessel for cold mounting                      | 27900100 |
| NXVI | Impregnation  | 1 Unit     | Vacuum impregnation system                             | 27910100 |
| NXPP | Pump          | 1 Unit     | Pump for NXVI  | 27910105 |
| XGOB | Recyclable    | Bag of 100 | 100 cups + 100 wooden stirrers                         | 27600100 |
| XDYE | Blue          | 10 ml      | Dye for resin XF10                                     | 25100100 |
| XDYE | Green         | 10 ml      | Dye for resin XF10                                     | 25100101 |
| XDYE | Yellow        | 10 ml      | Dye for resin XF10                                     | 25100102 |
| XDYE | Red           | 10 ml      | Dye for resin XF10                                     | 25100103 |



## XGRA Engraver for samples

| Item | Application   | Ref. N°  |
|------|---|----------|
| XGRA | Delivered with 1 Carbide tip and 1 diamond tip. 230 V | 85500050 |
| XGRA | Pack of 2 Carbide tip                                 | 85500052 |
| XGRA | Pack of 1 Diamond tip                                 | 85500053 |





## HOT MOUNTING RESINS

| Item | Quantity               | Color      |   | Applications                                    | Ref. N°  |
|------|------------------------|------------|---|---|----------|
| XPHB | 2,5 kg                 | Black      | ● | Phenolic, Standard mounting                     | 20025100 |
| XPHB | 10 kg                  | Black      | ● | Phenolic, Standard mounting                     | 20100100 |
| XPHB | 25 kg (carboard + bag) | Black      | ● | Phenolic, Standard mounting                     | 20200100 |
| XPHG | 2,5 kg                 | Green      | ● | Phenolic, Standard mounting                     | 20025110 |
| XPHG | 10 kg                  | Green      | ● | Phenolic, Standard mounting                     | 20100110 |
| XPHG | 25 kg (carboard + bag) | Green      | ● | Phenolic, Standard mounting                     | 20200110 |
| XPHR | 2,5 kg                 | Red        | ● | Phenolic, Standard mounting                     | 20025120 |
| XPHR | 10 kg                  | Red        | ● | Phenolic, Standard mounting                     | 20100120 |
| XPHR | 25 kg (carboard + bag) | Red        | ● | Phenolic, Standard mounting                     | 20200120 |
| XPHN | 2,5 kg                 | Dark Brown | ● | Phenolic, Standard mounting                     | 20025123 |
| XPHN | 10 kg                  | Dark Brown | ● | Phenolic, Standard mounting                     | 20100123 |
| XPHN | 25 kg (carboard + bag) | Dark Brown | ● | Phenolic, Standard mounting                     | 20200123 |
| XGFB | 1 kg                   | Black      | ● | Phenolic, Glass Fiber                           | 20001126 |
| XGFB | 2,5 kg                 | Black      | ● | Phenolic, Glass Fiber                           | 20025126 |
| XGFB | 10 kg                  | Black      | ● | Phenolic, Glass Fiber                           | 20100126 |
| XPHC | 1 kg                   | Black      | ● | Carbon Conductive Phenolic                      | 20001130 |
| XPHC | 2,5 kg                 | Black      | ● | Carbon Conductive Phenolic                      | 20025130 |
| XDPB | 1 kg                   | Blue       | ● | Diallylphthalate Glass Fiber, very high quality | 20001150 |
| XDPB | 2,5 kg                 | Blue       | ● | Diallylphthalate Glass Fiber, very high quality | 20025150 |
| XDPB | 10 kg                  | Blue       | ● | Diallylphthalate Glass Fiber, very high quality | 20100150 |
| XACT | 1 kg                   | Clear      | ○ | Acrylic Transparent                             | 20001160 |
| XACT | 2,5 kg                 | Clear      | ○ | Acrylic Transparent                             | 20025160 |
| XACT | 10 kg                  | Clear      | ○ | Acrylic Transparent                             | 20100160 |
| XEPB | 1 kg                   | Black      | ● | Epoxy HQ (High Quality)                         | 20001170 |
| XEPB | 2,5 kg                 | Black      | ● | Epoxy HQ (High Quality)                         | 20025170 |
| XEPB | 10 kg                  | Black      | ● | Epoxy HQ (High Quality)                         | 20100170 |
| XEPB | 15 kg                  | Black      | ● | Epoxy HQ (High Quality)                         | 20150170 |
| XEPB | 25 kg (carboard + bag) | Black      | ● | Epoxy HQ (High Quality)                         | 20250170 |
| XJET | 500 ml                 |            |   | SIL-JET spray, mould release agent              | 27600900 |



# GRINDING

**HIGH QUALITY  
ABRASIVE PAPERS.  
N°1 IN EUROPE FOR  
METALLOGRAPHY!**

**DELIVERED IN WHITE  
CARDBOARD BOX.**



| GRIT  | μ     |
|-------|-------|
| P80   | 200 μ |
| P120  | 125 μ |
| P180  | 82 μ  |
| P240  | 60 μ  |
| P320  | 46 μ  |
| P400  | 35 μ  |
| P600  | 26 μ  |
| P800  | 22 μ  |
| P1000 | 18 μ  |
| P1200 | 15 μ  |
| P2400 | 8 μ   |
| P4000 | 5 μ   |

*Other diameter  
under request*

## XPNC - SIC Abrasive Papers - PLAIN

*Applications: All Materials - Box of 100*

| Item | Ø mm | Grit  | Ref. N°  |
|------|------|-------|----------|
| XPNC | 200  | P80   | 30008200 |
| XPNC | 200  | P120  | 30012200 |
| XPNC | 200  | P180  | 30018200 |
| XPNC | 200  | P240  | 30024200 |
| XPNC | 200  | P320  | 30032200 |
| XPNC | 200  | P400  | 30040200 |
| XPNC | 200  | P600  | 30060200 |
| XPNC | 200  | P800  | 30080200 |
| XPNC | 200  | P1000 | 30100200 |
| XPNC | 200  | P1200 | 30120200 |
| XPNC | 200  | P2400 | 30240200 |
| XPNC | 200  | P4000 | 30400200 |
| XPNC | 230  | P120  | 30012230 |
| XPNC | 230  | P180  | 30018230 |
| XPNC | 230  | P320  | 30032230 |
| XPNC | 230  | P800  | 30080230 |
| XPNC | 230  | P1200 | 30120230 |
| XPNC | 230  | P2400 | 30240230 |
| XPNC | 230  | P4000 | 30400230 |
| XPNC | 250  | P80   | 30008250 |
| XPNC | 250  | P120  | 30012250 |
| XPNC | 250  | P180  | 30018250 |
| XPNC | 250  | P240  | 30024250 |
| XPNC | 250  | P320  | 30032250 |
| XPNC | 250  | P400  | 30040250 |
| XPNC | 250  | P600  | 30060250 |
| XPNC | 250  | P800  | 30080250 |
| XPNC | 250  | P1000 | 30100250 |
| XPNC | 250  | P1200 | 30120250 |
| XPNC | 250  | P2400 | 30240250 |
| XPNC | 250  | P4000 | 30400250 |
| XPNC | 300  | P80   | 30008300 |
| XPNC | 300  | P120  | 30012300 |
| XPNC | 300  | P180  | 30018300 |
| XPNC | 300  | P240  | 30024300 |
| XPNC | 300  | P320  | 30032300 |
| XPNC | 300  | P400  | 30040300 |
| XPNC | 300  | P600  | 30060300 |
| XPNC | 300  | P800  | 30080300 |
| XPNC | 300  | P1000 | 30100300 |
| XPNC | 300  | P1200 | 30120300 |
| XPNC | 300  | P2400 | 30240300 |
| XPNC | 300  | P4000 | 30400300 |
| XPNC | 305  | P120  | 30012305 |
| XPNC | 305  | P180  | 30018305 |
| XPNC | 305  | P320  | 30032305 |
| XPNC | 305  | P800  | 30080305 |
| XPNC | 305  | P1200 | 30120305 |
| XPNC | 305  | P4000 | 30400305 |

**XPAC TO USE ON  
ELECTROSTATIC PAD  
OR AS AUTO-ADHESIVE**

**DELIVERED IN WHITE  
CARDBOARD BOX.**



## XPAC SIC Abrasive Papers - PSA

*Applications: All Materials - Box of 100*

| Item | Ø mm | Grit  | Ref. N°  |
|------|------|-------|----------|
| XPAC | 200  | P80   | 31008200 |
| XPAC | 200  | P120  | 31012200 |
| XPAC | 200  | P180  | 31018200 |
| XPAC | 200  | P240  | 31024200 |
| XPAC | 200  | P320  | 31032200 |
| XPAC | 200  | P400  | 31040200 |
| XPAC | 200  | P600  | 31060200 |
| XPAC | 200  | P800  | 31080200 |
| XPAC | 200  | P1000 | 31100200 |
| XPAC | 200  | P1200 | 31120200 |
| XPAC | 200  | P2400 | 31240200 |
| XPAC | 200  | P4000 | 31400200 |
| XPAC | 250  | P80   | 31008250 |
| XPAC | 250  | P120  | 31012250 |
| XPAC | 250  | P180  | 31018250 |
| XPAC | 250  | P240  | 31024250 |
| XPAC | 250  | P320  | 31032250 |
| XPAC | 250  | P400  | 31040250 |
| XPAC | 250  | P600  | 31060250 |
| XPAC | 250  | P800  | 31080250 |
| XPAC | 250  | P1000 | 31100250 |
| XPAC | 250  | P1200 | 31120250 |
| XPAC | 250  | P2400 | 31240250 |
| XPAC | 250  | P4000 | 31400250 |
| XPAC | 300  | P80   | 31008300 |
| XPAC | 300  | P120  | 31012300 |
| XPAC | 300  | P180  | 31018300 |
| XPAC | 300  | P240  | 31024300 |
| XPAC | 300  | P320  | 31032300 |
| XPAC | 300  | P400  | 31040300 |
| XPAC | 300  | P600  | 31060300 |
| XPAC | 300  | P800  | 31080300 |
| XPAC | 300  | P1000 | 31100300 |
| XPAC | 300  | P1200 | 31120300 |
| XPAC | 300  | P2400 | 31240300 |
| XPAC | 300  | P4000 | 31400300 |

*Other diameter under request*

## Grinding wheel for ABRAPLAN - MAPS - Box of 1

| Item | Ø mm | Abrasive | Applications            | Ref. N°  |
|------|------|----------|-------------------------|----------|
| X950 | 355  | Al2O3    | Fast grinding, Grit 150 | 33355150 |



## Diamond grinding Discs

Box of 1

**Applications: Very Hard Materials**

| Item | Ø mm | Abrasive | Ref. N°  |
|------|------|----------|----------|
| XDMB | 200  | 250 µ    | 33250200 |
| XDMB | 200  | 125 µ    | 33125200 |
| XDMB | 200  | 75 µ     | 33075200 |
| XDMB | 200  | 40 µ     | 33040200 |
| XDMB | 200  | 20 µ     | 33020200 |
| XDRB | 200  | 30 µ     | 33030200 |
| XDRB | 200  | 10 µ     | 33010200 |
| XDMB | 250  | 250 µ    | 33250250 |
| XDMB | 250  | 125 µ    | 33125250 |
| XDMB | 250  | 75 µ     | 33075250 |
| XDMB | 250  | 40 µ     | 33040250 |
| XDMB | 250  | 20 µ     | 33020250 |
| XDRB | 250  | 30 µ     | 33030250 |
| XDRB | 250  | 10 µ     | 33010250 |
| XDMB | 300  | 250 µ    | 33250300 |
| XDMB | 300  | 125 µ    | 33125300 |
| XDMB | 300  | 75 µ     | 33075300 |
| XDMB | 300  | 40 µ     | 33040300 |
| XDMB | 300  | 20 µ     | 33020300 |
| XDRB | 300  | 30 µ     | 33030300 |
| XDRB | 300  | 10 µ     | 33010300 |



## XMAG Magnetic disc to stick on polishing machine

Pck of 1

**Applications: to stick on polishing plate to use magnetic**

| Item | Ø mm | Quality      | Ref. N°  |
|------|------|--------------|----------|
| XMAG | 200  | High Quality | 34900200 |
| XMAG | 250  | High Quality | 34900250 |
| XMAG | 300  | High Quality | 34900300 |

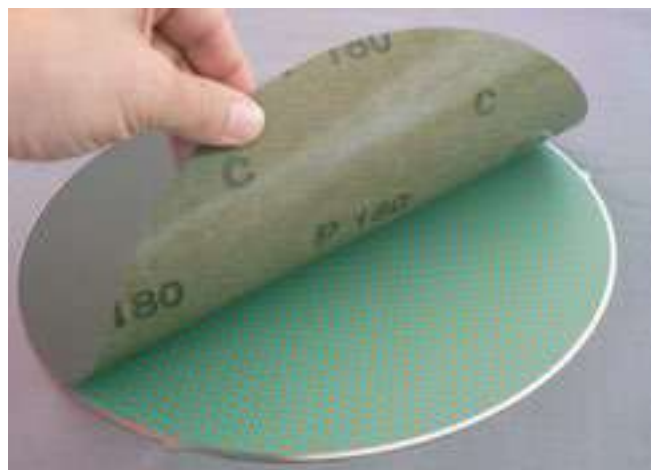


## XPSA Metallic disc to use adhesive on magnetic

Pck of 1

**Applications: to stick adhesive pads to use on magnetic**

| Item | Ø mm | Quality      | Ref. N°  |
|------|------|--------------|----------|
| XPSA | 200  | High Quality | 34910200 |
| XPSA | 250  | High Quality | 34910250 |
| XPSA | 300  | High Quality | 34910300 |



**LOWER PRICES!**  
**RANGE FROM 125 μ TO 6 μ!**  
**HIGHER STOCK REMOVAL!**  
**BETTER FLATNESS! LONGER LIFE!**

**XTOP** is a self-sharpening, flexible grinding disc for flat and fine grinding applications, replacing abrasive papers in grinding hard materials.

Precision graded diamond and optimized grit concentration lead to short process time, flat surface and superior edge sharpness.

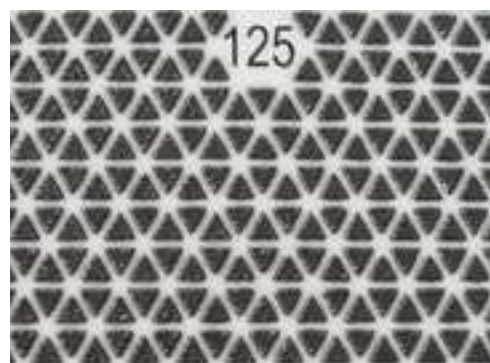
## XTOP Diamond grinding Discs

(to use with water) - Box of 1

**Applications: Hard & very hard materials > 150HV**

| Item | Ø mm | Grit  | Ref. N°  |
|------|------|-------|----------|
| XTOP | 200  | 125 μ | 34125200 |
| XTOP | 200  | 75 μ  | 34075200 |
| XTOP | 200  | 54 μ  | 34054200 |
| XTOP | 200  | 18 μ  | 34018200 |
| XTOP | 200  | 15 μ  | 34015200 |
| XTOP | 200  | 6 μ   | 34006200 |
| XTOP | 250  | 125 μ | 34125250 |
| XTOP | 250  | 75 μ  | 34075250 |
| XTOP | 250  | 54 μ  | 34054250 |
| XTOP | 250  | 18 μ  | 34018250 |
| XTOP | 250  | 15 μ  | 34015250 |
| XTOP | 250  | 6 μ   | 34006250 |
| XTOP | 300  | 125 μ | 34125300 |
| XTOP | 300  | 75 μ  | 34075300 |
| XTOP | 300  | 54 μ  | 34054300 |
| XTOP | 300  | 18 μ  | 34018300 |
| XTOP | 300  | 15 μ  | 34015300 |
| XTOP | 300  | 6 μ   | 34006300 |

Ø 350 and 400 mm are available under request.



## Dressing Stone for Diamond Grinding Discs and for Cleaning XTOP

Box of 1

**Applications: For XTOP, XDMB, XDRB**

| Item | mm        | Abrasive                       | Ref. N°  |
|------|-----------|--------------------------------|----------|
| XDDG | 50x60x100 | Al <sub>2</sub> O <sub>3</sub> | 12900120 |







The perfect suspension!



## XM25 Monocrystalline Permanent Diamond Suspension

Quantity

0,5 l

1 l

2,5 l

5 l

| Item | Grit   | Color    | Applications  | Ref. N°  | Ref. N°  | Ref. N°  | Ref. N°  |
|------|--------|----------|---------------|----------|----------|----------|----------|
| XM25 | 0,25 μ | Grey ●   | All materials | 50025005 | 50025010 | 50025025 | 50025050 |
| XM25 | 1 μ    | Blue ●   | All materials | 50001005 | 50001010 | 50001025 | 50001050 |
| XM25 | 3 μ    | Green ●  | All materials | 50003005 | 50003010 | 50003025 | 50003050 |
| XM25 | 6 μ    | Yellow ● | All materials | 50006005 | 50006010 | 50006025 | 50006050 |
| XM25 | 9 μ    | Orange ● | All materials | 50009005 | 50009010 | 50009025 | 50009050 |
| XM25 | 15 μ   | Red ●    | All materials | 50015005 | 50015010 | 50015025 | 50015050 |

250 ml or other possible under request

Our diamond suspensions are manufactured by us in our air-conditioned laboratory at constant temperature.

They are all biodegradable.

We only use high quality diamond and perfectly calibrated.



## XP35 Polycrystalline Permanent Diamond Suspension

Quantity

0,5 l

1 l

2,5 l

5 l

| Item | Grit   | Color   | Applications             | Ref. N°  | Ref. N°  | Ref. N°  | Ref. N°  |
|------|--------|---------|--------------------------|----------|----------|----------|----------|
| XP35 | 0,25 μ | Black ● | Hard Materials, Titanium | 52025005 | 52025010 | 52025025 | 52025050 |
| XP35 | 1 μ    | Black ● | Hard Materials, Titanium | 52001005 | 52001010 | 52001025 | 52001050 |
| XP35 | 3 μ    | Black ● | Hard Materials, Titanium | 52003005 | 52003010 | 52003025 | 52003050 |
| XP35 | 6 μ    | Black ● | Hard Materials, Titanium | 52006005 | 52006010 | 52006025 | 52006050 |
| XP35 | 9 μ    | Black ● | Hard Materials, Titanium | 52009005 | 52009010 | 52009025 | 52009050 |
| XP35 | 15 μ   | Black ● | Hard Materials, Titanium | 52015005 | 52015010 | 52015025 | 52015050 |

250 ml or other possible under request

**2IN1**  
SUSPENSION  
TO BE USE  
WITHOUT  
LUBRICANT

**NEW FORMULA!**  
**MORE LUBRICANT!**  
**MORE SMOOTH!**  
**MORE CONCENTRATED!**

## XM15 2in1 Monocrystalline Permanent Diamond Suspension

*Applications: All materials*

| Item | Grit   | Color    | Quantity |          |          |          |
|------|--------|----------|----------|----------|----------|----------|
|      |        |          | 0,5 l    | 1 l      | 2,5 l    | 5 l      |
|      |        |          | Ref. N°  | Ref. N°  | Ref. N°  | Ref. N°  |
| XM15 | 0,25 µ | Grey ●   | 51025005 | 51025010 | 51025025 | 51025050 |
| XM15 | 1 µ    | Blue ○   | 51001005 | 51001010 | 51001025 | 51001050 |
| XM15 | 3 µ    | Green ○  | 51003005 | 51003010 | 51003025 | 51003050 |
| XM15 | 6 µ    | Yellow ○ | 51006005 | 51006010 | 51006025 | 51006050 |
| XM15 | 9 µ    | Orange ○ | 51009005 | 51009010 | 51009025 | 51009050 |
| XM15 | 15 µ   | Red ●    | 51015005 | 51015010 | 51015025 | 51015050 |

*250 ml or other possible under request*

## XP15 2in1 Polycrystalline Permanent Diamond Suspension

*Applications: Hard Materials, Titanium*

| Item | Grit   | Color   | Quantity |          |          |          |
|------|--------|---------|----------|----------|----------|----------|
|      |        |         | 0,5 l    | 1 l      | 2,5 l    | 5 l      |
|      |        |         | Ref. N°  | Ref. N°  | Ref. N°  | Ref. N°  |
| XP15 | 0,25 µ | Black ● | 53025005 | 53025010 | 53025025 | 53025050 |
| XP15 | 1 µ    | Black ● | 53001005 | 53001010 | 53001025 | 53001050 |
| XP15 | 3 µ    | Black ● | 53003005 | 53003010 | 53003025 | 53003050 |
| XP15 | 6 µ    | Black ● | 53006005 | 53006010 | 53006025 | 53006050 |
| XP15 | 9 µ    | Black ● | 53009005 | 53009010 | 53009025 | 53009050 |
| XP15 | 15 µ   | Black ● | 53015005 | 53015010 | 53015025 | 53015050 |

*250 ml or other possible under request*

## XPAL Alcohol Base POLY Diamond spray

*150 ml No Water - Applications: Hard Materials, Titanium*

| Item | Grit   | Color   | Ref. N°  |
|------|--------|---------|----------|
| XPAL | 0,25 µ | Black ● | 52025301 |
| XPAL | 1 µ    | Black ● | 52001301 |
| XPAL | 3 µ    | Black ● | 52003301 |
| XPAL | 6 µ    | Black ● | 52006301 |
| XPAL | 9 µ    | Black ● | 52009301 |
| XPAL | 15 µ   | Black ● | 52015301 |

## XMAL Alcohol Base MONO Diamond spray

*150 ml No Water - Applications: All Materials*

| Item | Grit   | Color    | Ref. N°  |
|------|--------|----------|----------|
| XMAL | 0,25 µ | Grey ●   | 50125001 |
| XMAL | 1 µ    | Blue ○   | 50101001 |
| XMAL | 3 µ    | Green ○  | 50103001 |
| XMAL | 6 µ    | Yellow ○ | 50106001 |
| XMAL | 9 µ    | Orange ○ | 50109001 |
| XMAL | 15 µ   | Red ●    | 50105001 |



DIAMOND SPRAY  
ALCOHOL BASE

## XMWF MONO Permanent Diamond Suspension Very High Concentration

0,5 litre **Applications: All materials**

| Item | Grit | Color    | Ref. N°  |
|------|------|----------|----------|
| XMWF | 1 μ  | Blue ●   | 51001105 |
| XMWF | 3 μ  | Green ●  | 51003105 |
| XMWF | 6 μ  | Yellow ● | 51006105 |
| XMWF | 9 μ  | Orange ● | 51009105 |

## XPWF POLY Permanent Diamond Suspension Very High Concentration

0,5 litre **Applications: All materials**

| Item | Grit | Color   | Ref. N°  |
|------|------|---------|----------|
| XPWF | 1 μ  | Black ● | 53001105 |
| XPWF | 3 μ  | Black ● | 53003105 |
| XPWF | 6 μ  | Black ● | 53006105 |
| XPWF | 9 μ  | Black ● | 53009105 |

**PERMANENT  
DIAMOND SUSPENSION**

**No Water,  
No Oil,  
No Alcohol!**

**EASY CLEANING  
BIODEGRADABLE  
NOT HAZARDOUS**



## ALCOHOL BASE

Water sensitive materials  
Very high cutting power  
Easy cleaning



## XMAL Alcohol Base Monocrystalline Diamond Suspension - No Water

**Applications: All materials**

| Item    | Grit    | Color    | Quantity |          |
|---------|---------|----------|----------|----------|
|         |         |          | 0,5 l    | 1 l      |
| Ref. N° | Ref. N° |          |          |          |
| XMAL    | 0,25 μ  | Grey ●   | 50125010 | 50125011 |
| XMAL    | 1 μ     | Blue ●   | 50101010 | 50101011 |
| XMAL    | 3 μ     | Green ●  | 50103010 | 50103011 |
| XMAL    | 6 μ     | Yellow ● | 50106010 | 50106011 |
| XMAL    | 9 μ     | Orange ● | 50109010 | 50109011 |
| XMAL    | 15 μ    | Red ●    | 50115010 | 50115011 |

250 ml or other possible under request

## XPAL Alcohol Base Polycrystalline Diamond Suspension - No Water

**Applications: All hard materials**

| Item    | Grit    | Color   | Quantity |          |
|---------|---------|---------|----------|----------|
|         |         |         | 0,5 l    | 1 l      |
| Ref. N° | Ref. N° |         |          |          |
| XPAL    | 0,25 μ  | Black ● | 52025305 | 52025310 |
| XPAL    | 1 μ     | Black ● | 52001305 | 52001310 |
| XPAL    | 3 μ     | Black ● | 52003305 | 52003310 |
| XPAL    | 6 μ     | Black ● | 52006305 | 52006310 |
| XPAL    | 9 μ     | Black ● | 52009305 | 52009310 |
| XPAL    | 15 μ    | Black ● | 52015305 | 52015310 |

250 ml or other possible under request



Our diamond pastes are manufactured by us in our air-conditioned laboratory at constant temperature.

They are all biodegradable.



## **XDGM Monocrystalline Diamond Paste**

**Standard Concentration** Tube of 10 g

**Applications: Soft materials, Stainless Steel**

| Item | Grit   | Color  |   | Ref. N°  |
|------|--------|--------|---|----------|
| XDGM | 0,25 μ | Grey   | ● | 56025010 |
| XDGM | 1 μ    | Blue   | ● | 56001010 |
| XDGM | 3 μ    | Green  | ● | 56003010 |
| XDGM | 6 μ    | Yellow | ● | 56006010 |
| XDGM | 9 μ    | Orange | ● | 56009010 |
| XDGM | 15 μ   | Red    | ● | 56015010 |

## **XDPM Monocrystalline Diamond Paste**

**High Concentration** Tube of 10 g

**Applications: Hard Materials**

| Item | Grit   | Color  |   | Ref. N°  |
|------|--------|--------|---|----------|
| XDPM | 0,25 μ | Grey   | ● | 56025015 |
| XDPM | 1 μ    | Blue   | ● | 56001015 |
| XDPM | 3 μ    | Green  | ● | 56003015 |
| XDPM | 6 μ    | Yellow | ● | 56006015 |
| XDPM | 9 μ    | Orange | ● | 56009015 |
| XDPM | 15 μ   | Red    | ● | 56015015 |

## **XDPP Polycrystalline Diamond Paste**

**High Concentration** Tube of 10 g

**Applications: Hard Materials, Titanium**

| Item | Grit   | Color |   | Ref. N°  |
|------|--------|-------|---|----------|
| XDPP | 0,25 μ | Black | ● | 57025010 |
| XDPP | 1 μ    | Black | ● | 57001010 |
| XDPP | 3 μ    | Black | ● | 57003010 |
| XDPP | 6 μ    | Black | ● | 57006010 |
| XDPP | 9 μ    | Black | ● | 57009010 |
| XDPP | 15 μ   | Black | ● | 57015010 |

## **Lubricants**

| Item | Quantity | Color  |   | Applications                               | Ref. N°  |
|------|----------|--------|---|--|----------|
| XL20 | 1 l      | Green  | ● | Water base lubricant                       | 45010120 |
| XL20 | 2,5 l    | Green  | ● | Water base lubricant                       | 45025120 |
| XL20 | 5 l      | Green  | ● | Water base lubricant                       | 45050120 |
| XL20 | 10 l     | Green  | ● | Water base lubricant                       | 45100120 |
| XL25 | 1 l      | Red    | ● | Water base lubricant                       | 45010125 |
| XL25 | 2,5 l    | Red    | ● | Water base lubricant                       | 45025125 |
| XL25 | 5 l      | Red    | ● | Water base lubricant                       | 45050125 |
| XL25 | 10 l     | Red    | ● | Water base lubricant                       | 45100125 |
| XL22 | 1 l      | Orange | ● | Water & Alcohol base lubricant             | 45010122 |
| XL22 | 2,5 l    | Orange | ● | Water & Alcohol base lubricant             | 45025122 |
| XL22 | 5 l      | Orange | ● | Water & Alcohol base lubricant             | 45050122 |
| XL22 | 10 l     | Orange | ● | Water & Alcohol base lubricant             | 45100122 |
| XL50 | 1 l      | Blue   | ● | Alcohol base lubricant More cutting power! | 45010150 |
| XL50 | 2,5 l    | Blue   | ● | Alcohol base lubricant More cutting power! | 45025150 |
| XL50 | 5 l      | Blue   | ● | Alcohol base lubricant More cutting power! | 45050150 |
| XL50 | 10 l     | Blue   | ● | Alcohol base lubricant More cutting power! | 45100150 |

Our lubricants are all biodegradable.

We only use high quality ingredients.



## **Lubricant Water Soluble for Lapping**

| Item | Quantity | Color |   | Applications  | Ref. N°  |
|------|----------|-------|---|---------------|----------|
| XL90 | 1 l      | Blond | ● | Lubrification | 45001900 |
| XL90 | 5 l      | Blond | ● | Lubrification | 45005900 |
| XL90 | 10 l     | Blond | ● | Lubrification | 45010900 |

# SUPERFINISHING

**A NEW RANGE OF COLLOIDAL SILICA FOR VERY HIGH SUPER-FINISHING ON ALL MATERIALS!**



## Colloidal Silica Suspension (with anticrystallization agent)

| Item | Grit         | Quantity | Color   | Applications                      | Ref. N°  |
|------|--------------|----------|---------|-----------------------------------|----------|
| XA05 | 0,05 µ Basic | 1 l      | ○ White | Super Finishing                   | 36005101 |
| XA05 | 0,05 µ Basic | 2,5 l    | ○ White | Super Finishing                   | 36005125 |
| XA05 | 0,05 µ Basic | 5 l      | ○ White | Super Finishing                   | 36005150 |
| XA15 | 0,15 µ Basic | 1 l      | ● Pink  | Super Finishing (more aggressive) | 36120101 |
| XA15 | 0,15 µ Basic | 2,5 l    | ● Pink  | Super Finishing (more aggressive) | 36120125 |
| XA15 | 0,15 µ Basic | 5 l      | ● Pink  | Super Finishing (more aggressive) | 36120150 |

## Colloidal Silica Suspension + Al<sub>2</sub>O<sub>3</sub> (with anticrystallization agent)

| Item | Grit         | Quantity | Color  | Applications                          | Ref. N°  |
|------|--------------|----------|--------|---------------------------------------|----------|
| XA06 | 0,05 µ Basic | 1 l      | ○ Blue | Super Finishing for Ferrous Materials | 36005201 |
| XA06 | 0,05 µ Basic | 5 l      | ○ Blue | Super Finishing for Ferrous Materials | 36005250 |

**NEW**

## XALO Alumina Powder - Box of 1kg

| Item | Grit   | Quality  | Application     | Ref. N°  |
|------|--------|----------|-----------------|----------|
| XALO | 0,04 µ | Gamma    | Super Finishing | 35004100 |
| XALO | 0,3 µ  | Alpha    | Super Finishing | 35003100 |
| XALO | 1 µ    | Alpha    | High Finishing  | 35100100 |
| XALO | 1 µ    | Standard | Finishing       | 35010100 |
| XALO | 3 µ    | Standard | Semi Finishing  | 35030100 |
| XALO | 5 µ    | Standard | Semi Finishing  | 35050100 |
| XALO | 9 µ    | Standard | Lapping         | 35090100 |
| XALO | 15 µ   | Standard | Lapping         | 35150100 |
| XALO | 30 µ   | Standard | Lapping         | 35300100 |



## XALO Alumina Suspension - Bottle of 1 litre

| Item | Grit   | Quality | Applications    | Ref. N°  |
|------|--------|---------|-----------------|----------|
| XALO | 0,04 µ | Gamma   | Super Finishing | 36004200 |
| XALO | 0,3 µ  | Alpha   | Super Finishing | 36030200 |
| XALO | 1 µ    | Alpha   | Finishing       | 36010200 |

## MISCELLANEOUS

### Portable polishing unit Electer E-MAX EVO



| Item   | Ref. N°  |
|--|----------|
| Electer E-MAX EVO  | 85000100 |
| Delivered in Aluminium case with 1 motor ENK-250T, 1 Reducer RG01, 1 Tool holder 90° IC300, 1 rubber disc holder Ø 30 mm, 1 set of polishing cloth Ø 32 mm (10x X500, 10x X300 & 10x X200) |          |
| Motor ENK-250T + power cord  | 85000105 |
| Motor ENK-410S + power cord  | 85000106 |
| Straight tool holder IH300   | 85000110 |
| 90° tool holder IC300  | 85000111 |
| Reducer 1/4 RG01   | 85000115 |
| Rubber disc holder Ø 30 mm (x5 units)  | 85000120 |

### Consumables for Replica



| Item   | Ref. N°  |
|--|----------|
| XREP Replica sheets 100x150 mm, thickness 35 µ, Pack of 20           | 27700120 |
| XREP Applicator  |          |
| XREP Replica paste for horizontale & inclined surface, Tube of 50 ml |          |
| XREP Static mixer, Pack of 30  |          |
| XPAC Abrasive discs PSA, Ø 32 mm, P60, Pack de 100                   |          |
| XPAC Abrasive discs PSA, Ø 32 mm, P120, Pack de 100                  |          |
| XPAC Abrasive discs PSA, Ø 32 mm, P240, Pack de 100                  |          |
| XPAC Abrasive discs PSA, Ø 32 mm, P400, Pack de 100                  |          |
| XPAC Abrasive discs PSA, Ø 32 mm, P600, Pack de 100                  |          |
| XPAC Abrasive discs PSA, Ø 32 mm, P1200, Pack de 100                 |          |

| Item | Ø mm | Color   | Applications                 | Ref. N°  |
|------|------|---------|------------------------------|----------|
| X500 | 32   | White ○ | Diamond 9, 6, 3 µ Pack of 25 | 40032500 |
| X300 | 32   | White ○ | Diamond 6, 3, 1 µ Pack of 25 | 40032600 |
| X200 | 32   | Red ●   | Diamond 3, 1 µ Pack of 25    | 40032200 |

### Ultrasonic cleaning tank (delivered with cover and basket)

| Item | Capacity | Heating | Int. Dim. (mm) | Ref. N°  |
|------|----------|---------|----------------|----------|
| XU01 | 0,8 l    | No      | 190x85x60      | 85100101 |
| XU02 | 1,75 l   | No      | 151x137x100    | 85100102 |
| XU03 | 2,75 l   | Yes     | 240x137x100    | 85100103 |
| XU04 | 4,25 l   | Yes     | 240x137x150    | 85100104 |
| XU06 | 5,75 l   | Yes     | 300x151x150    | 85100106 |
| XU07 | 6,9 l    | Yes     | 505x137x100    | 85100107 |
| XU08 | 9,4 l    | Yes     | 505x137x150    | 85100108 |
| XU10 | 9,5 l    | Yes     | 300x240x150    | 85100110 |
| XU12 | 12,75 l  | Yes     | 300x240x200    | 85100112 |
| XU18 | 18 l     | Yes     | 327x300x200    | 85100118 |
| XU30 | 28 l     | Yes     | 505x300x200    | 85100130 |
| XU45 | 45 l     | Yes     | 500x300x300    | 85100145 |
| XU90 | 90 l     | Yes     | 600x500x300    | 85100190 |



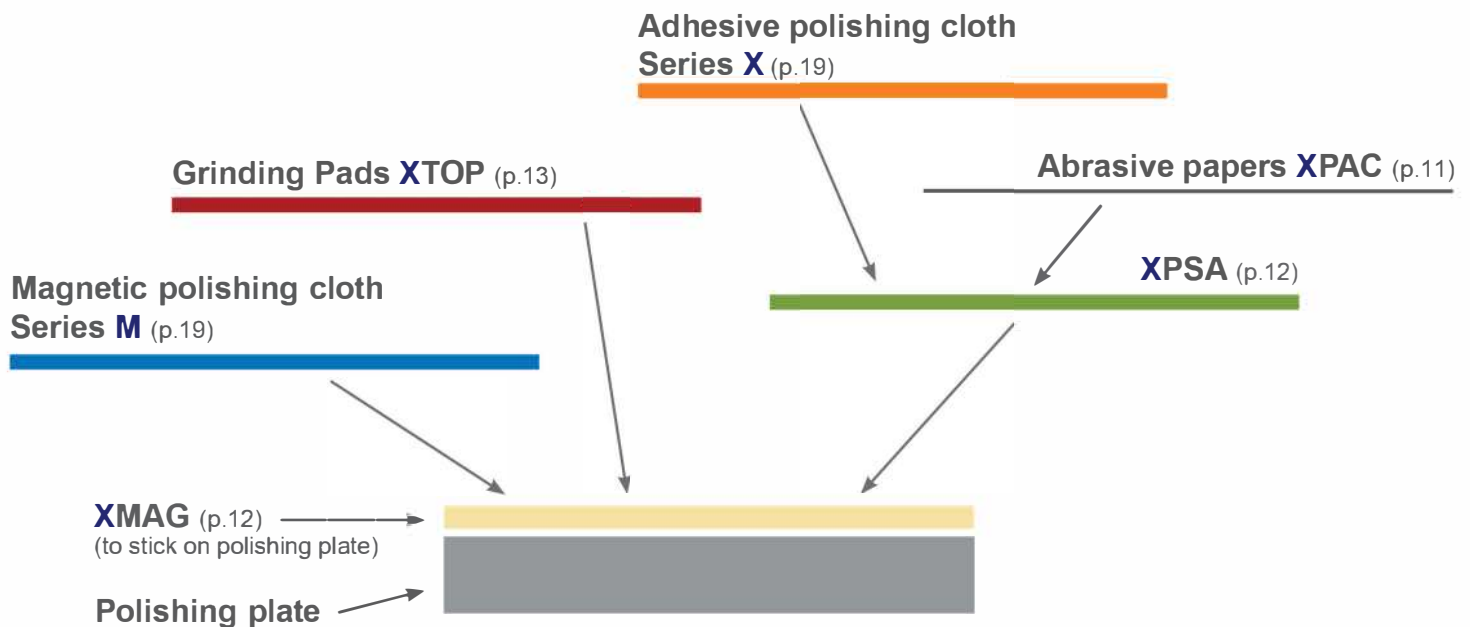


# MAGNETIC SYSTEM

## How to simplify and speed up samples preparation?

With our high quality products, simplify and speed up your samples preparation by using magnetic system.

**Only 1 polishing plate is necessary.**



Stick on your polishing plate our **X MAG**, and then you can use all types of consumables.

Either directly on **X MAG** with series **M** polishing cloths, grinding pads **X TOP**

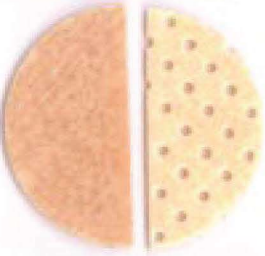





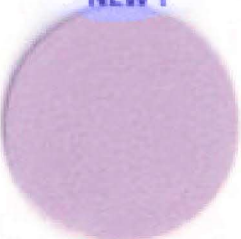



or

All others adhesive products like abrasive papers **X PAC**, series **X** polishing cloths, standard diamond pads... by using intermediate metallic foil **X PSA**.

**NEW**

*Also available our new Electrostatic System!*

## POLISHING CLOTHS

|  |   |   |  |   |  |
|--|---|---|--|---|--|
|   | <b>NEW !</b><br>   | <b>NEW !</b><br>  |   |    | Selection and production of the most efficient and performing polishing cloths for metallography and industrial polishing. |
| <b>X710 X715</b>   | <b>X620</b>   | <b>X550</b>   | <b>X540</b>  | <b>X500</b>   |  |
| High density polishing pad, for high and plan stock removal. For hard and very hard materials.<br>(X715: perforated)<br>30, 15, 9 or 6 $\mu$ | Non-woven polishing cloth, for plan polishing. Internal film barrier. Medium, hard and very hard materials.<br>15, 9, 6 or 3 $\mu$                                | Woven satin polishing cloth with internal barrier film. Excellent flatness and durability. Higher material removal. All materials.<br>15, 9, 6 or 3 $\mu$ | Woven silk polishing cloth with internal barrier film and PVC foil. Good flatness. All materials.<br>9, 6, 3 or 1 $\mu$              | Woven silk polishing cloth with internal barrier and thin adhesive film. Excellent flatness and semifinishing. All materials.<br>9, 6, 3 or 1 $\mu$ |  |
|    | <b>NEW !</b><br>  |    | <b>NEW !</b><br>                                 | <b>NEW !</b><br>  |  |
| <b>X300</b>  | <b>X240</b>   | <b>X220</b>   | <b>X200</b>  | <b>X100</b>   |  |
| 100% pure woven wool polishing cloth. Medium and soft materials. Semi-finishing or finishing with 3 $\mu$ .<br>6 or 3 $\mu$                  | Soft flocked polishing cloth with internal barrier film. Flatness, durability and finishing. Semi-finishing and finishing of all materials.<br>9, 6, 3 or 1 $\mu$ | Soft flocked polishing cloth. Flatness and finishing. Semi-finishing and finishing of all materials.<br>6, 3 or 1 $\mu$                                   | Very soft flocked polishing cloth. Semi-finishing and finishing of all materials, with diamond or fine Alumina.<br>3, 1 or 1/4 $\mu$ | Buffed polyurethane. Super-finishing on many materials. To use with Colloidal Silica (XA05) or extra-fine Alumina.<br>1 to 0,04 $\mu$               |  |
| Our adhesive polishing cloths X series are also available in a MAGNETIC version, M series, and compatible on electrostatic pads.             |   |   |  |   |  |



Técnicas de Medida y Metalografía, S.A.  
28031, Madrid  
Spain

**TECNIMETAL**

Quality Assurance Technology

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