



microtec 5960 / 5930

Microabrasives

for CR-Finishing® solutions

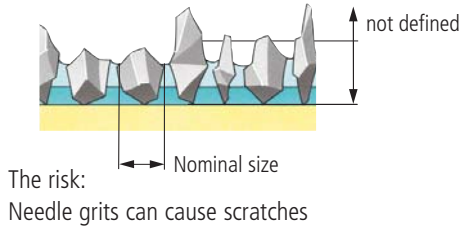
Flat Lapping, Edge Finishing, Polishing, Superfinishing

CR-Finishing® is a quality concept aimed at ensuring an efficient process which produces functional surfaces first time. Our microtec products have been designed specifically to suit application procedures, workpieces and materials.

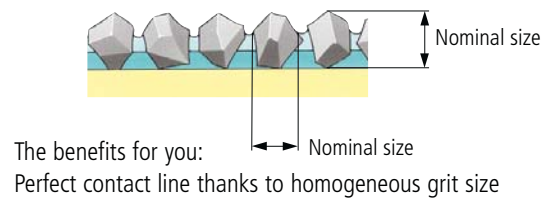
Grit selection Excellent finish quality thanks to unique grit calibration

A particularly extensive grit selection guarantees consistent, reproducible machining results. The microtec standard is more precise than the FEPA-P standard. The CR-Finishing® grit therefore guarantees a consistent, first-class surface structure conforming to defined requirements.

Structure of FEPA-P standard abrasives



Structure of CR-Finishing® microtec abrasives

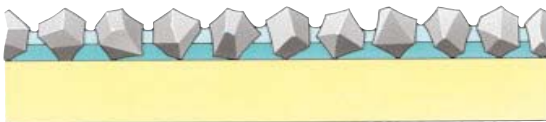


Adhesive Based on synthetic resin

A special binder system bonds the grit precisely onto the backing material. This ensures constant finishing rates while also permitting the use of modern cooling lubricants, such as emulsions or water (also spray cooling).

Backing Polyester films as backing material

Due to their precision and quality, polyester films are especially suited as a backing material for precision finishing tools. Since conventional sanding belts made of cloth or paper are compressible, they cannot ensure a constant processing action. This results in undesirable and inaccurate roughness depth values which prevent a consistent and reproducible surface from being achieved.



CR-Finishing® abrasive grit on polyester film

- Perfect flattening thanks to absolutely flat film backing
- Constant finishing action
- Exact roughness depth values

High load and endurance strength

Reproducible surfaces permit defined tolerances. This is essential for the production of precision components in the machine and vehicle manufacturing industries. Finishing is the key to the production of consistent and reproducible technical surfaces. The co-ordinated products from Sia Abrasives deliver the consistent quality needed to achieve high cost efficiency in the production process.

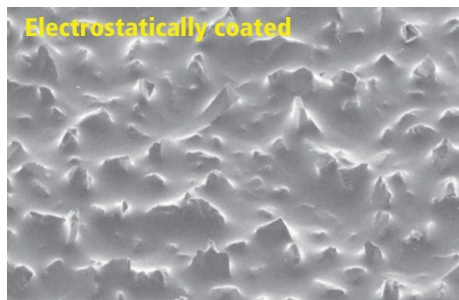
- What is achieved by the finishing process:
- Defined surface roughness
 - Higher contact ratio thanks to cross-cut

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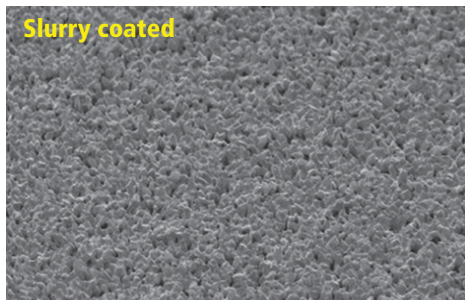
This electrostatically coated aluminium oxide finishing product with 75 µm (3 mil) polyester film backing and resin-over-resin bonding is suitable for applications which demand higher cutting power. Optimal results are achieved when a coolant (emulsion) is used.

5930 microtec

This slurry coated aluminium oxide finishing product with 75 µm (3 mil) polyester film backing and resin-over-resin bonding is particularly suited to machining different materials, such as copper or chrome. It is normally used together with a coolant (emulsion).



Electrostatically coated



Slurry coated

- Grit tips face upwards
- Higher cutting power than slurry coated abrasives
- Multiple layers of grit embedded in a binder
- Smoother surface than electrostatically coated products of same grit

CR-Finishing® advantages:

- ▶ High cost efficiency and finishing performance
- ▶ Defined and reproducible surface roughness
- ▶ Constant and precise surface structure
- ▶ Reduced process and retooling times
- ▶ Cross-cut excellent cutting results
- ▶ High material removal rates

Materials
 Metal, High-hardness Metal, Ceramic, Glass, Plastic, Silicon Carbides

Technology
 CR-Finishing®

