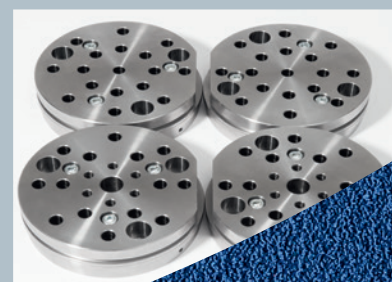


# Abrasives for Precision Grinding





# Genuine STARCKE. Since 1829.



## EXCELLENCE IS NOT A MATTER OF CHANCE.

Abrasives from STARCKE are typical products “Made in Germany”. For customers and partners world-wide, this means they can rely on a leading supplier for the professional use of abrasives in industrial manufacturing applications. We offer efficient solutions ensuring perfect results in all lines of industry and areas of application.

The STARCKE organization is a medium-sized and independent fourth-generation family-run business and ranks among the leading suppliers of high-quality coated abrasives. For more than

185 years STARCKE abrasive cloths and papers have been used to give the required finish to all kinds of different products, ensuring first-class results.

Quality is one of our top priorities and subject to ongoing review. This involves inspecting our batches on a regular basis and documenting the results. In addition to being ISO 9001 certified, STARCKE also complies with individual customer-defined standards, for example in the optical industry.

## OUR EXPERTISE IN PRECISION GRINDING.

We are the specialist for achieving perfect surfaces in precision grinding using microgrits.

### Your benefits:

- Consistent product quality “Made in Germany”
- Accurate coating of abrasive grains up to grit ST 7000
- Uniform surface roughness
- Swift and reliable delivery

# EXPERTISE IN PRECISION ENGINEERING

Your partner for all precision grinding applications



1. Jewelry industry



2. Clock and watch making industry



3. Electronics industry

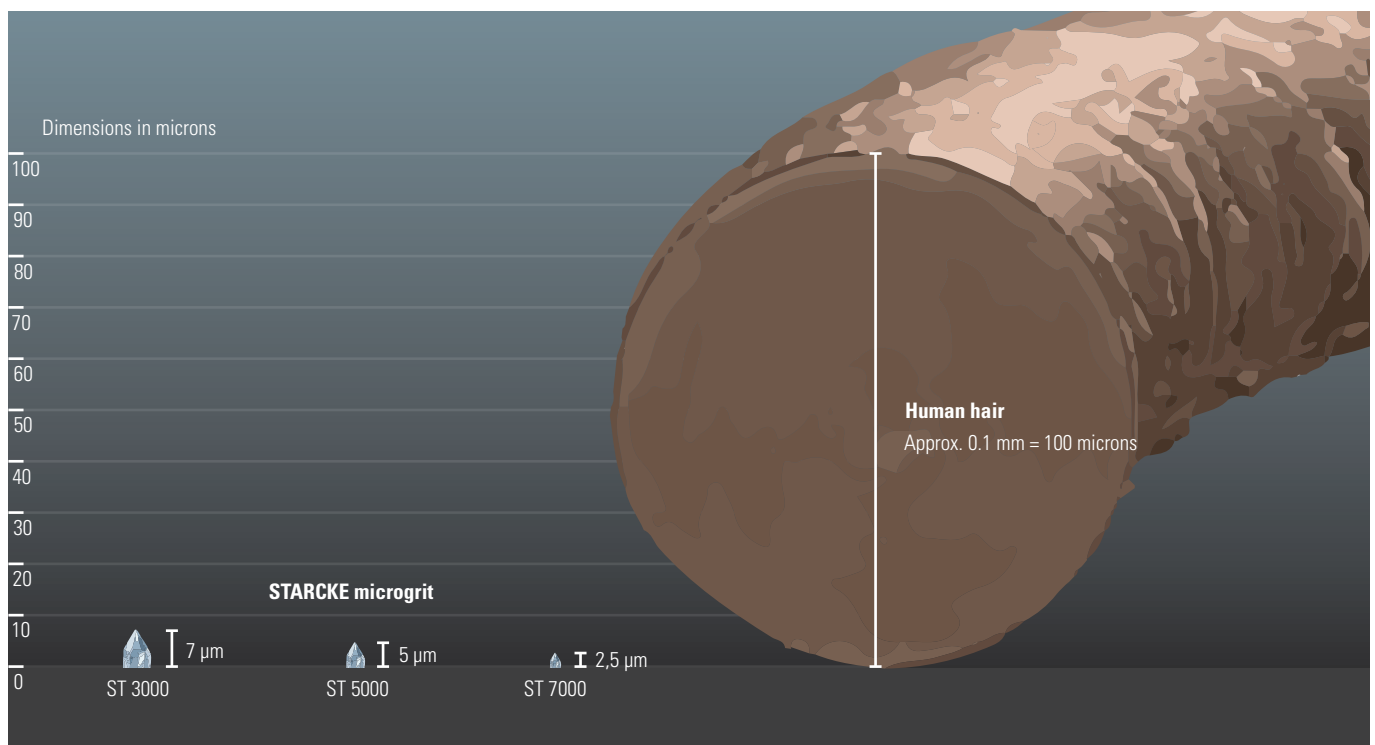


4. Optical industry



5. Tool making industry

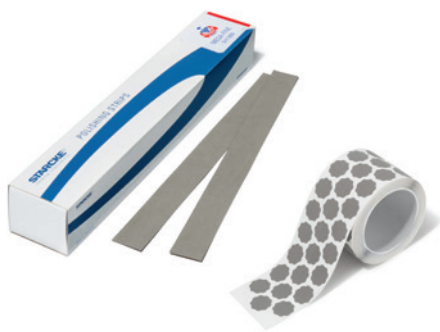
# STARCKE MICROGRIT TECHNOLOGY



A comparison with the diameter of a human hair illustrates that STARCKE microgrit stands for cutting-edge technology at micron level. For perfect surface finishing with uniform surface roughness.

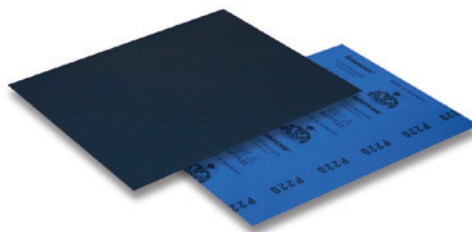
## CUTTING-EDGE TECHNOLOGY RIGHT DOWN TO THE TIP OF THE GRAIN

Working with STARCKE microgrits will optimize your surface finishing operation. This has been illustrated by the impressive results achieved in precision grinding operations using our abrasive products. Our waterproof "MATADOR" series incorporates the full expertise that is imperative for the micro abrasive grades used today. This product name stands for superior quality and process stability all over the world.



### MICROGRIT PRODUCTS IN A WIDE VARIETY OF SHAPES

Whether you need classic sheets or custom-cut shapes: STARCKE offers microgrit products in whichever shape is perfect for your specific area of application.



### COMPELLING RESULTS

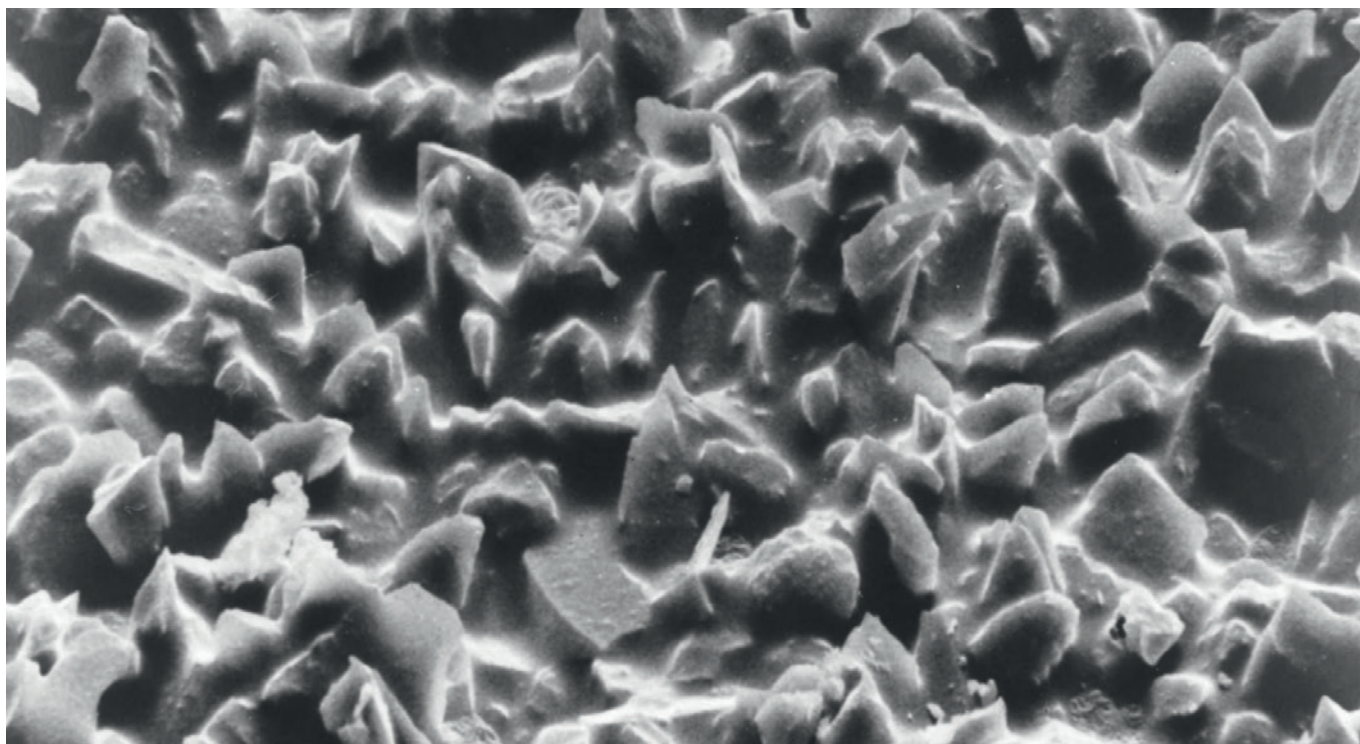
The consistently excellent quality meets the most exacting standards, positioning us as an acknowledged supplier in key lines of industry.



### MATADOR BY STARCKE

For decades, MATADOR by STARCKE has been a world-wide synonym for competence in micro abrasive products with waterproof backing.

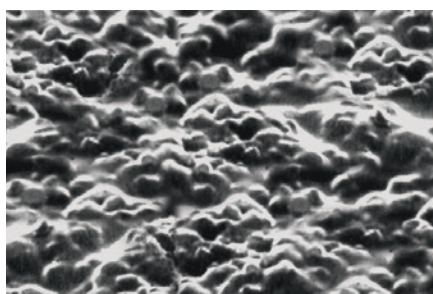




Microscope image of abrasive grit ST 5000, approx. 1000x magnification

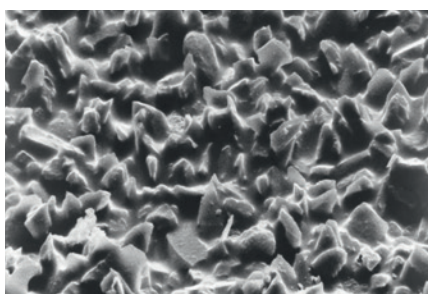
#### OPTIMIZED ALIGNMENT OF ABRASIVE GRAINS ENSURES PERFECT CUTTING PERFORMANCE

Superior results are not a matter of chance. Each individual abrasive grain is perfectly positioned and aligned. This ensures, in particular, the high surface quality and sustained cutting performance required in micro abrasive grinding applications. Our product range in the microgrit segment is continually expanded and adjusted to cater to new market requirements. In this respect, our ST 3000, ST 5000 and ST 7000 grit sizes are "Genuine STARCKE"!



#### SLURRY COATED

In slurry coated abrasives, the abrasive grains are typically non-aligned. This frequently results in a lower cutting performance compared to abrasives with electrostatically coated grains.



#### STARCKE COATING

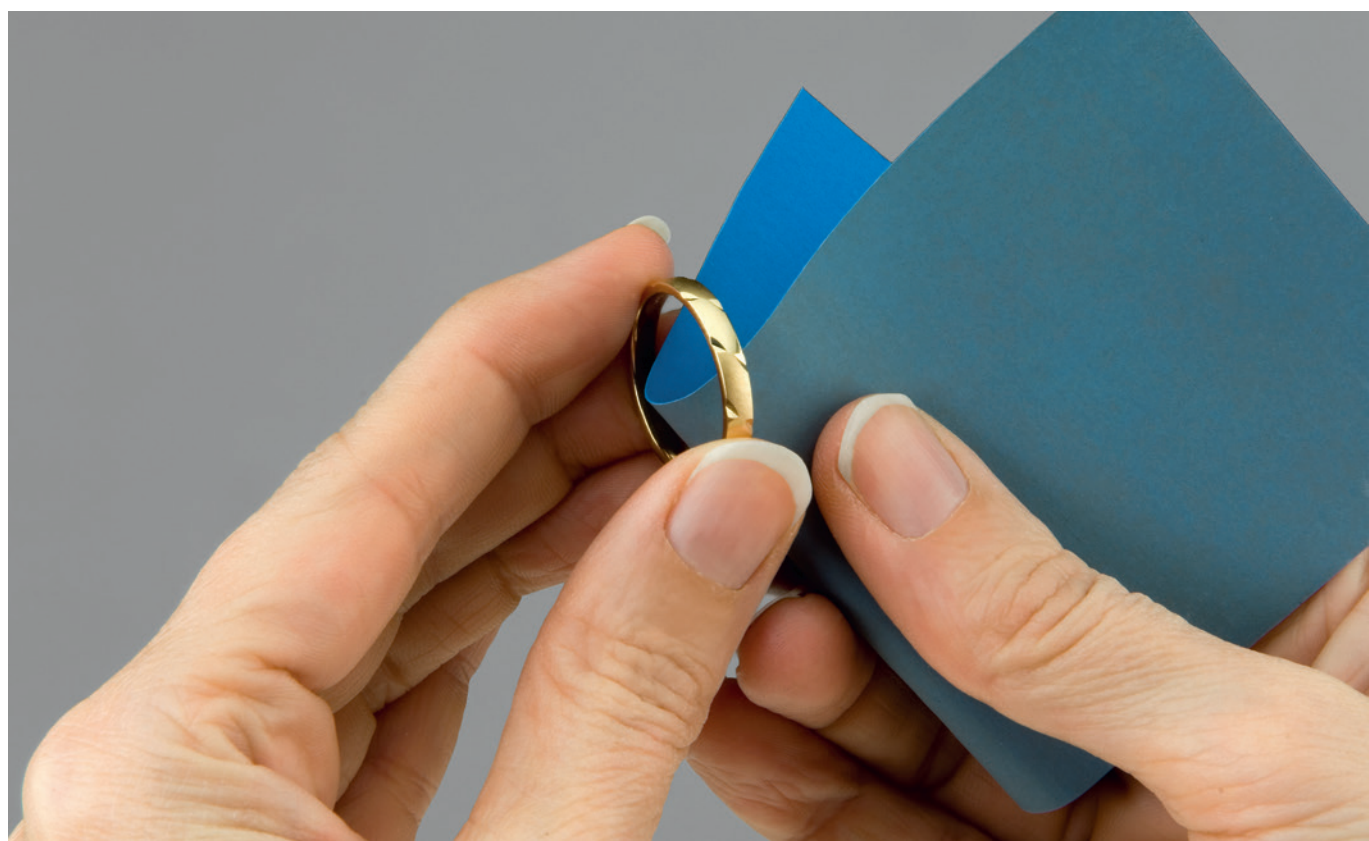
The STARCKE grain coating method produces grain tips that point upward. This achieves a significantly higher cutting performance compared to slurry coated abrasive products.

**STARCKE®**

#### STARCKE MICROGRIT STANDARD

Our special expertise in the manufacture of micro grain abrasives is reflected in STARCKE's proprietary microgrit standard that is labeled with the grain code "ST". STARCKE microgrits are currently available in grain sizes ST 3000, ST 5000, and ST 7000.

# JEWELRY INDUSTRY



## ARTICLE-NO. 991A / 991C

Backing	Flexible latex A-/C-paper with high tear-resistance
Bonding	Full resin over resin, waterproof
Grain type	Silicon carbide
Grits	P 60 - P 2500, ST 3000, ST 5000, ST 7000
Forms	Rolls, sheets, strips
Applications	Precision surface grinding
Material	High-quality stainless steel and precious metals
Benefits	<ul style="list-style-type: none"><li>– High-tech product for precision grinding operations</li><li>– Perfect alignment of abrasive grains</li><li>– Consistent cutting performance and uniform surface roughness</li><li>– Uniform surface finish</li></ul>

## ARTICLE-NO. 591A

Backing	Flexible latex A-paper, high tear-resistance
Bonding	Full resin over resin, waterproof
Grain type	Aluminum oxide
Grits	P 320, P 600, P 800
Forms	Rolls, sheets, strips
Applications	Precision surface grinding
Material	High-quality stainless steel and other precious metals
Benefits	<ul style="list-style-type: none"><li>– Aluminum oxide produces soft surface finish appearance</li><li>– Perfect alignment of abrasive grains</li><li>– Consistent cutting performance and uniform surface roughness</li><li>– Uniform surface finish</li></ul>

# CLOCK AND WATCH MAKING INDUSTRY



## ARTICLE-NO. 531J, 531JFF, 541JF, 542JFF, 552JFF

Backing	Flexible and highly flexible cotton cloth or flexible cotton/polyester mix
Bonding	Full resin over resin
Grain type	Aluminum oxide
Grits	P 60 - P 800
Forms	Rolls, belts
Applications	Precision surface grinding
Material	Metal surfaces, precious metals
Benefits	<ul style="list-style-type: none"><li>– Different degrees of flexibility available</li><li>– Perfectly tuned to every application</li><li>– Long service life</li><li>– Grinding of small / tight radiuses possible</li><li>– Perfect joint quality due to many years of experience</li></ul>

## ARTICLE-NO. 991A / 991C

Backing	Flexible latex A-/C-paper with high tear-resistance
Bonding	Full resin over resin, waterproof
Grain type	Silicon carbide
Grits	P 60 - P 2500, ST 3000, ST 5000, ST 7000
Forms	Rolls, sheets, strips, discs
Applications	Precision surface grinding
Material	Metal surfaces, precious metals
Benefits	<ul style="list-style-type: none"><li>– High-tech product for precision grinding operations</li><li>– Perfect alignment of abrasive grains</li><li>– Consistent cutting performance and uniform surface roughness</li><li>– Uniform surface finish</li></ul>



# ELECTRONICS INDUSTRY

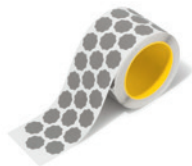


## ARTICLE-NO. 991A / 991C

Backing	Flexible latex A-/C paper with high tear resistance
Bonding	Full resin over resin, waterproof
Grain type	Silicon carbide
Grits	P 60 - P 2500, ST 3000, ST 5000, ST 7000
Forms	Rolls, sheets, strips, discs
Applications	Precision surface grinding
Material	Metal, stainless steel, plastics
Benefits	<ul style="list-style-type: none"> <li>– High-tech product for precision grinding operations</li> <li>– Perfect alignment of abrasive grains</li> <li>– Consistent cutting performance and uniform surface roughness</li> <li>– Uniform surface finish</li> </ul>

## ARTICLE-NO. 991A – MINI SCALLOP DISCS

Backing	Flexible latex A-paper with high tear resistance
Bonding	Full resin over resin, waterproof
Grain type	Silicon carbide
Grits	ST 3000, ST 5000
Forms	Mini scallop discs
Applications	Precision surface grinding
Material	Metal, stainless steel, plastics, varnish
Benefits	<ul style="list-style-type: none"> <li>– High-tech product for precision grinding operations</li> <li>– Perfect alignment of abrasive grains</li> <li>– Consistent cutting performance and uniform surface roughness</li> <li>– Uniform surface finish</li> <li>– Can be simply stuck on your fingertip</li> </ul>





# ELECTRONICS INDUSTRY



## POLISHING STRIPS

Backing	Flexible latex A-paper with high tear-resistance
Bonding	Full resin over resin, waterproof
Grain type	Silicon carbide
Grits	ST 3000 (Super-Fine), ST 5000 (Mega-Fine) and ST 7000 (Ultra-Fine)
Forms	Polishing strips
Applications	Grinding of very small and complex surfaces (precision grinding)
Material	Metal, stainless steel, plastics
Benefits	<ul style="list-style-type: none"><li>– Consistent cutting performance and uniform surface roughness</li><li>– Ideal shapes for grinding small and fragile parts</li><li>– Convenient and functional packaging unit for protection against contamination</li></ul>



STARCKE Polishing Strips are available in grits

- ST 3000 (Super-Fine),
- ST 5000 (Mega-Fine) und
- ST 7000 (Ultra-Fine).

# OPTICAL INDUSTRY



## ARTICLE-NO. 691A

Backing	Flexible latex A-paper with high tear-resistance
Bonding	Full resin over resin, waterproof
Grain type	Aluminum oxide
Grits	P 240, P 320 - P 1500
Forms	Rolls
Applications	Lens grinding
Material	Plastics, mineral glass
Benefits	<ul style="list-style-type: none"><li>– High-tech product for precision grinding operations</li><li>– Perfect alignment of abrasive grains</li><li>– Consistent cutting performance and uniform surface roughness</li><li>– Uniform surface finish</li></ul>



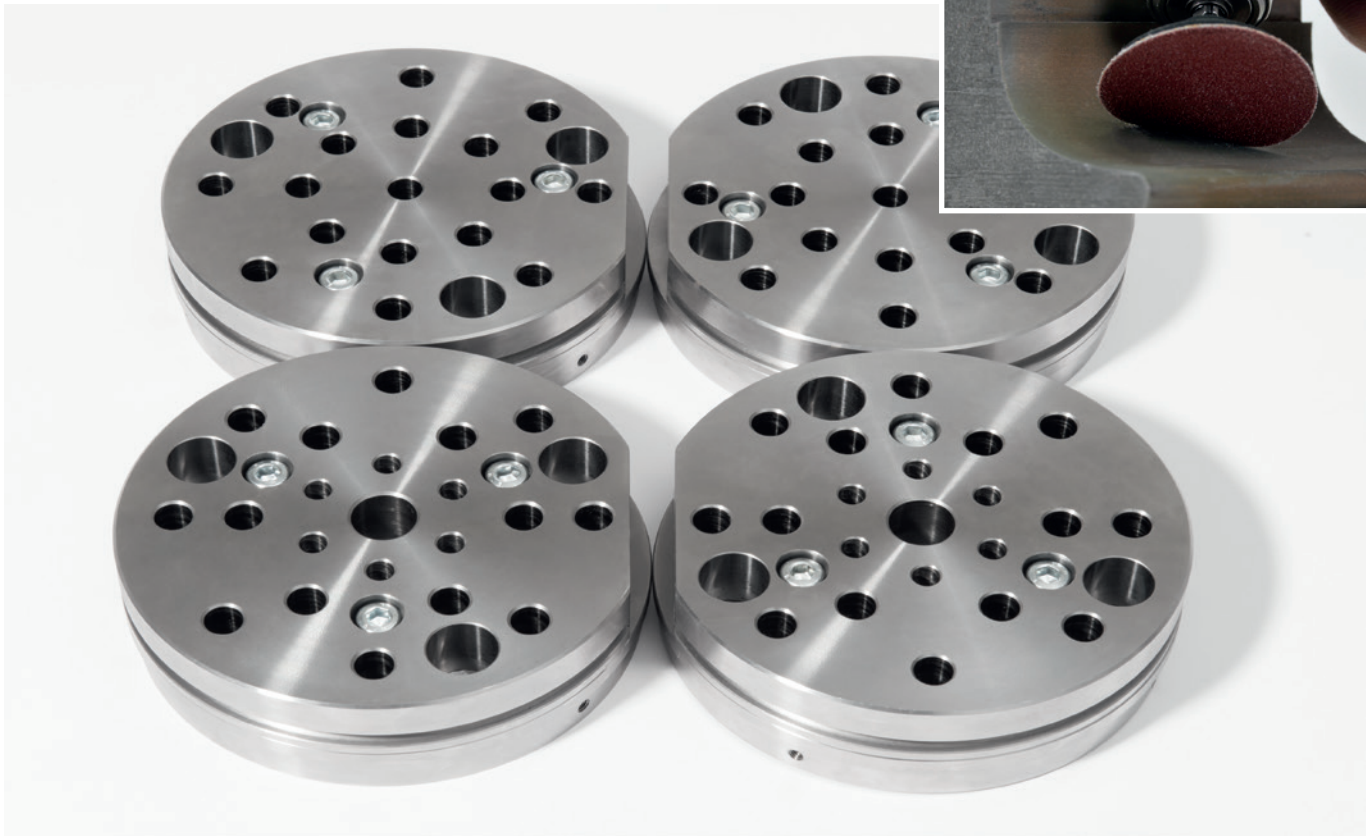
## ARTICLE-NO. 991A/991C

Backing	Flexible latex A-/C-paper with high tear-resistance
Bonding	Full resin over resin, waterproof
Grain type	Silicon carbide
Grits	P 60 - P 2500, ST 3000, ST 5000, ST 7000
Forms	Rolls
Applications	Precision surface grinding
Material	Plastics, mineral glass
Benefits	<ul style="list-style-type: none"><li>– High-tech product for precision grinding operations</li><li>– Perfect alignment of abrasive grains</li><li>– Consistent cutting performance and uniform surface roughness</li><li>– Uniform surface finish</li></ul>





# TOOLMAKING INDUSTRY



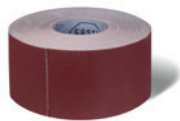
## ARTICLE-NO. 991A/991C

Backing	Flexible latex A-/C-paper with high tear-resistance
Bonding	Full resin over resin, waterproof
Grain type	Silicon carbide
Grits	P 60 - P 2500, ST 3000, ST 5000, ST 7000
Forms	Rolls, sheets, strips
Applications	Grinding of injection molds
Material	Various metals
Benefits	<ul style="list-style-type: none"><li>– High-tech product for precision grinding operations</li><li>– Perfect alignment of abrasive grains</li><li>– Consistent cutting performance and uniform surface roughness</li><li>– Uniform surface finish</li></ul>



## ARTICLE-NO. 641X

Backing	Heavy X-cotton cloth
Bonding	Full resin over resin
Grain type	Aluminum oxide
Grits	P 40, P 60 - P 240, P 320, P 400
Forms	Rolls, belts
Applications	Grinding of injection molds
Material	Various metals
Benefits	<ul style="list-style-type: none"><li>– Durable backing</li><li>– Excellent anchoring of abrasive grain</li><li>– For heavy-duty applications</li><li>– Excellent service life</li></ul>



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