

# PEARL GRINDING



# Genuine STARCKE. Since 1829.



## EXCELLENCE IS NOT A MATTER OF CHANCE

**A**brasives from STARCKE are typical “Made in Germany” quality. For customers and partners world-wide, this means they can rely on a leading supplier for professional abrasive operations in industrial manufacturing. We offer efficient solutions ensuring perfect results in all lines of industry and areas of application.

**T**he STARCKE organization is a medium-sized and independent fourth-generation family-run business and ranks among the leading suppliers of quality abrasives. For more than a century, STARCKE abrasive cloth and paper have been used to give the

required finish to all kinds of different products, ensuring top-quality results.

**Q**uality is one of our top priorities and continually reviewed. 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 automotive industry.

## TREATMENT OF METAL SURFACES – THIS IS OUR KNOW-HOW

We are the specialists to create the perfect surfaces in the entire metal working field.

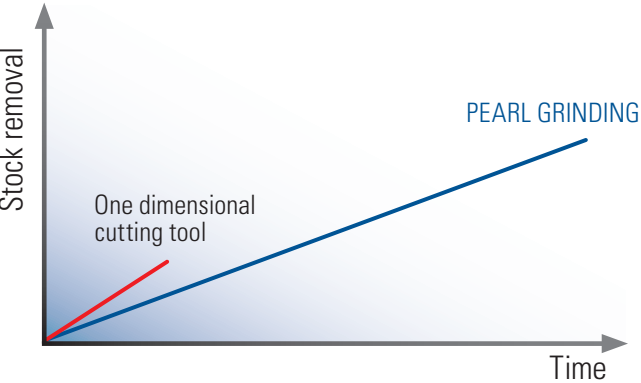
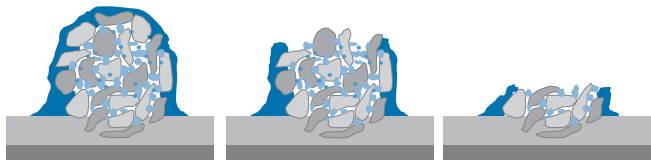
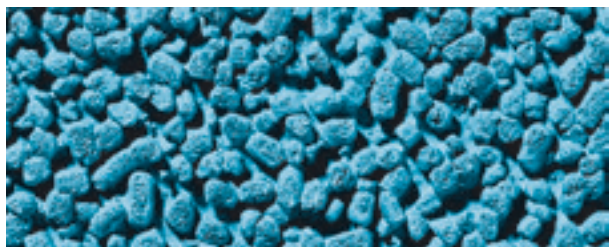
### **We offer this perfect result through:**

- Customized advice
- Impressive supply programme
- Consistent product quality “Made in Germany”
- Reliable supplies



# SURFACE EXPERTISE

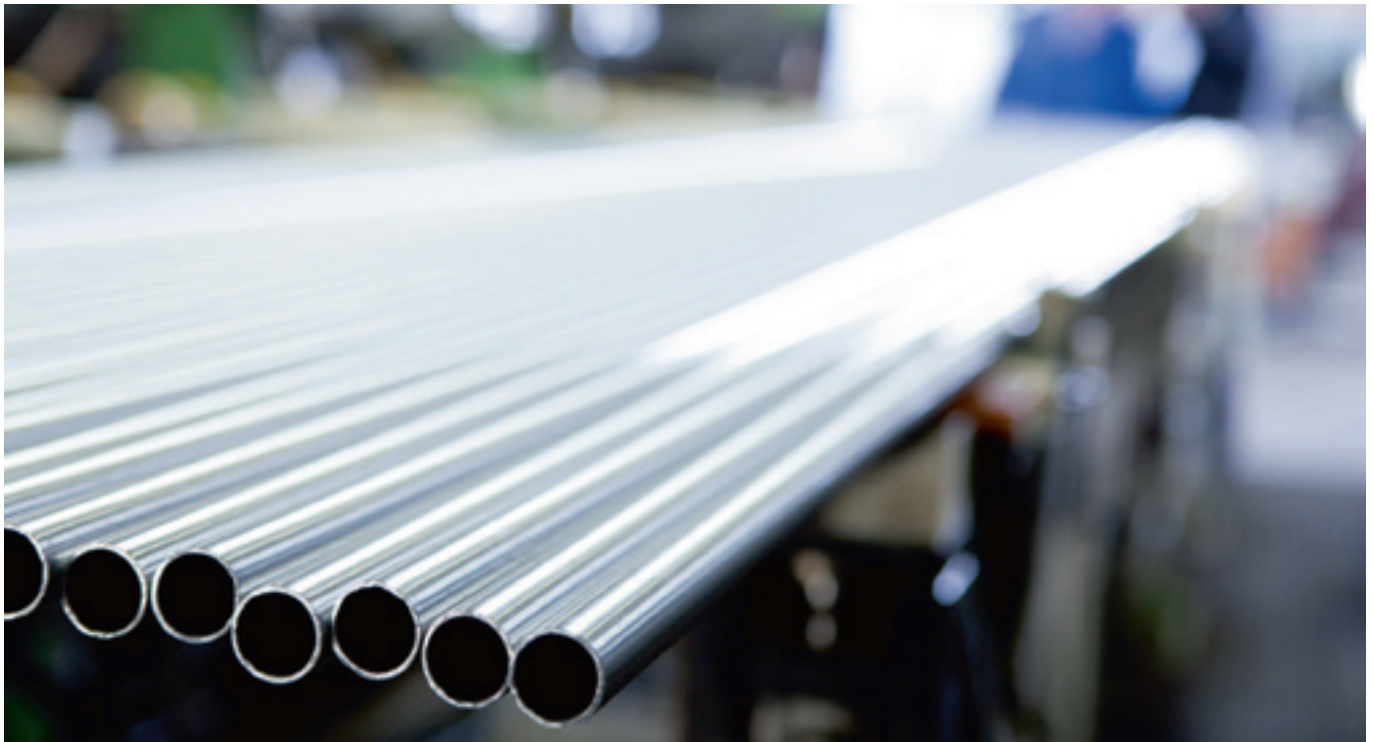
Your partner for brilliant metal surfaces



## PEARL GRINDING

1. Uniform surface structure
2. Self sharpening process
3. Continuous stock removal rates
4. Perfect results saving cost and time

# PEARL GRINDING – Applications



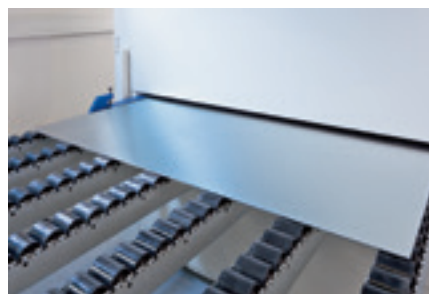
## HIGH PRECISION FOR INDUSTRIAL APPLICATIONS

Industrial applications require a high degree of specialization. With our family of PEARL GRINDING products we offer you the exact tool for your grinding needs. A perfect surface and an optimal life can thus be assured.



## COIL AND HEAVY PLATE PROCESSING

A81 XP and C41 XP for repair grinding of coils and plates in a rolling mill. A81 XP and C41 XP display their high performance in applications involving the use of water, emulsion, and oil.



## COIL AND THIN SHEET PROCESSING

B41 X and C41 XP are particularly suitable for steel sheet manufacturers and downstream processors for both dry and wet decorative grinding of stainless steel sheet materials. The bonding system of these products has been optimized specifically for these applications.



## FLAT ROLLED STEEL GRINDING

With its high bond hardness, A81 XP has the ideal application characteristics for edge grinding of flat rolled steel materials. Thanks to its uniform surface grinding characteristics, A41 XP is ideal for polishing and for galvanized surface finishing.



PEARL GRINDING with its perfectly granulated pearl-like grain is the reason for an extremely uniform grain surface. A decrease in the start-up time (run-in time), a reduction of the work pieces required for "grinding-in" as well as an extremely uniform grinding surface over the entire width of the work piece.



### CENTRELESS GRINDING

A41 XP, the ideal product for centreless grinding of tubes, bars and cylinders. The A41 XP bonding system is optimally suited for wet and dry grinding machine applications.

### RECTANGULAR TUBE GRINDING

With a grit range up to P 800, A41 XP produces a polishable ground surface. Galvanized surface finishes can be subsequently applied without any problem.

### WIRE GRINDING

With its regenerative concept, consisting of granulated abrasive grains and bonding system, A41 XP guarantees a consistently uniform wire surface finish. This ensures perfect removal of mill scales from the wire and a uniform feed of the wire material throughout the product's useful life, significantly reducing wear of the drawing plate.



### Self sharpening process



# Product Details



## ARTICLE-NO. A41 XP

Backing	Heavy-duty X-polyester cloth, resistant to emulsion and oil, also for dry grinding applications
Bonding	Resin over resin – medium strong
Grain type	PEARL GRINDING (Aluminum Oxide)
Coat	Closed coat
Production width	1.650 mm
Grits	P 60, P 80, P 120, P 150, P 180, P 240, P 320, P 400, P 600, P 800
Cut shapes	Belts, wide belts
Application	<ul style="list-style-type: none"> <li>• Grinding alloy and non alloy steels</li> <li>• Repair and finish grinding of warm rolled coils and sheets</li> <li>• Centreless Grinding</li> <li>• Grinding of rectangular tubing</li> <li>• Welded seam grinding of round and rectangular tubing</li> <li>• Wire grinding</li> </ul>
Benefits	<ul style="list-style-type: none"> <li>• Large amount of grain for a long belt life</li> <li>• Consistent stock removal</li> <li>• Less surface roughness from start to finish</li> <li>• Consistent scratch depth and workpiece surface throughout the belt life</li> </ul>

## ARTICLE-NO. A81 XP

Backing	Heavy-duty polyester cloth, resistant to emulsion and oil, also suitable for dry grinding applications
Bonding	Resin over resin - strong
Grain type	PEARL GRINDING (Aluminum Oxide)
Coat	Closed coat
Production width	1.650 mm
Grits	P 40, P 60, P 80, P 100, P 120
Cut shapes	Belts, wide belts
Application	<ul style="list-style-type: none"> <li>• Coil and sheet grinding</li> <li>• Descaling, repair and finish grinding</li> <li>• Grinding rectangular tubing</li> </ul>



**ARTICLE-NO. B41 X**

Backing	X-weight cotton cloth, resistant to emulsion and oil, also suitable for dry grinding applications
Bonding	Resin over resin – medium strong
Grain type	PEARL GRINDING (Aluminum Oxide)
Coat	Closed coat
Production width	1.650 mm
Grits	P 180, P 240, P 320, P 400
Cut shapes	Belts, wide belts
Application	<ul style="list-style-type: none"> <li>• Finish-/décor grinding of stainless steel coils and sheets</li> <li>• Abrasive belt strapping operation of stainless steel tubing</li> <li>• Wire grinding</li> </ul>
Benefits	<ul style="list-style-type: none"> <li>• Large amount of grain for a long belt life</li> <li>• Consistent stock removal</li> <li>• Less surface roughness from start to finish</li> <li>• Consistent scratch depth and workpiece surface throughout the belt life</li> </ul>

**ARTICLE-NO. C41 XP**

Backing	Heavy-duty X-polyester cloth
Bonding	Resin over resin
Grain type	PEARL GRINDING (Silicon-Carbide)
Coat	Closed coat
Production width	1.650 mm
Grits	P 80, P 100, P 120, P 180, P 240, P 320
Cut shapes	Belts, wide belts
Application	<ul style="list-style-type: none"> <li>• Repair and finish grinding of coils and sheets</li> <li>• Grinding of alloy and non-alloy steel, titanium alloys as well as glass and ceramics</li> <li>• Grinding of round piping, cylinders and rolls</li> </ul>

# STARCKE®

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