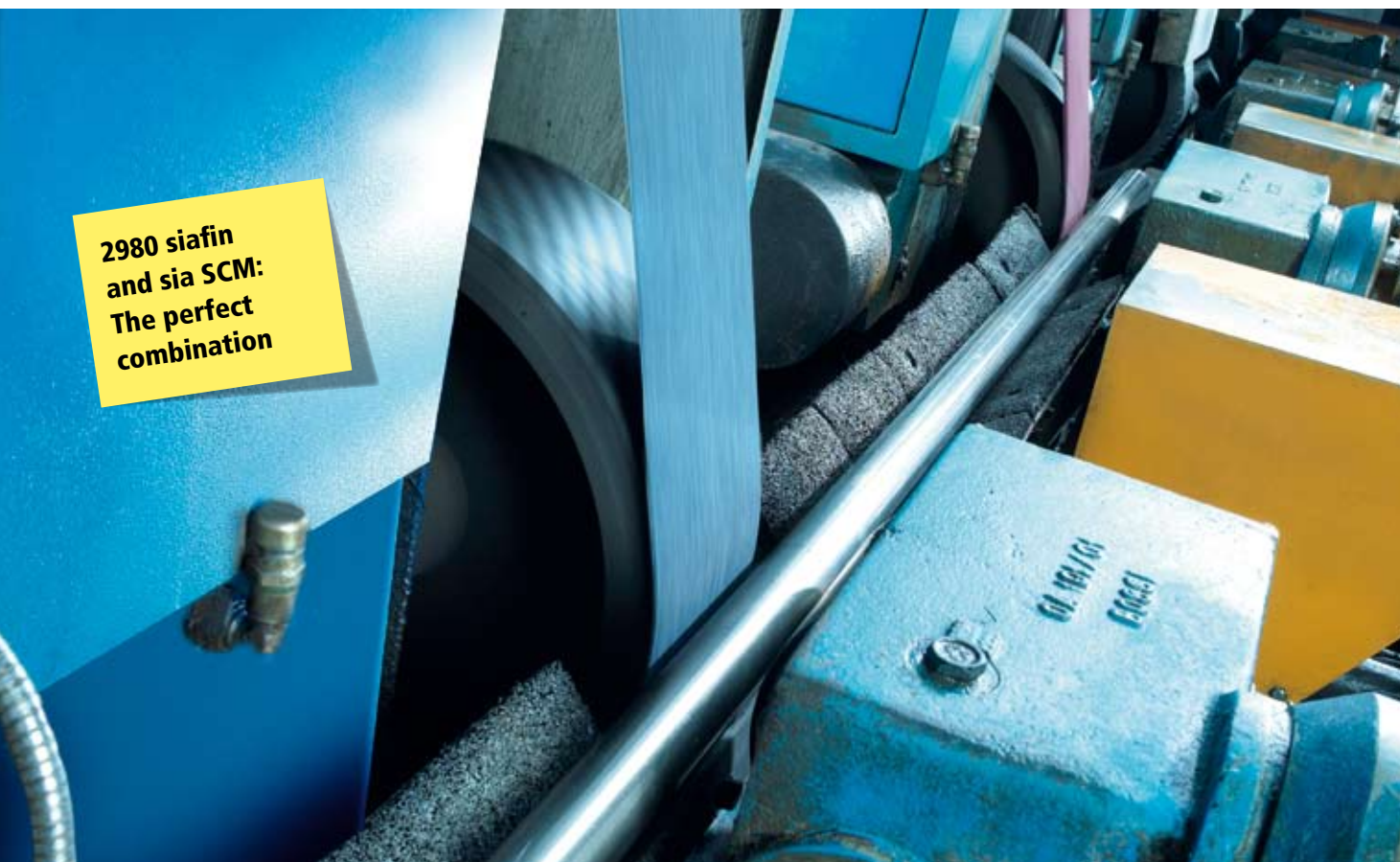


Grinding solutions for tubes and square profiles



Centerless grinding of tubes



Application with grit recommendation

Rough cutting

2980 siafin	
Preparation for electroplating	K120 – K600
Grinding out of pores	K050 – K120
Descaling of rolled steel	K050 – K120

Fine grinding

6210 sia SCM / 6250 sia SCM	
Cleaning of welds	coarse, medium
Refining of grind lines	medium, very fine
Satin finishing	medium, very fine

Series: 2980 siafin
 Grit: 3D aluminium oxide agglomerate
 Bonding: resin over resin
 Backing: y-weight cloth, polyester, waterproof
 Grit range: P050 – P600

Series: 6210 sia SCM
 Grit: aluminium oxide
 Bonding: synthetic resin, low stretch
 Scrim: polyester fibre
 Grade: coarse, medium, very fine

Series: 6250 sia SCM
 Grit: aluminium oxide
 Bonding: synthetic resin
 Scrim: polyester fibre, waterproof
 Grade: coarse, medium, very fine



Surface grinding of square profiles

**2980 siafin
and sia SCM:
The perfect
combination**



Application with grit recommendation

Rough cutting

2980 siafin	
Preparation for electroplating	K050 – K600
Grinding out of pores	K050 – K120
Descaling of rolled steel	K050 – K120

Fine grinding

6230 sia SCM Hyperflex™ / 6250 sia SCM	
Cleaning	coarse, medium
Refining grind lines	medium, fine, very fine
Satin finishing	coarse, medium, fine, very fine

Series: 2980 siafin
Grit: 3D aluminium oxide agglomerate
Bonding: resin over resin
Backing: y-weight cloth, polyester, waterproof
Grit range: P050 – P600

Series: 6230 sia SCM Hyperflex™
Grit: aluminium oxide
Bonding: synthetic resin
Scrim: polyester fibre, low stretch
Grade: extra coarse, coarse, medium, fine, very fine

Series: 6250 sia SCM
Grit: aluminium oxide
Bonding: synthetic resin
Scrim: polyester, waterproof
Grade: coarse, medium, very fine



Additional applications



Treatment of welding seams

One application, three solutions – the series for high-performance surface removal.

Application with grit recommendation

2503 siabite y (INOX)	
Grinding out of weld seams	K040 or K060

2829 siaron y (Carbon steel)	
Grinding out of weld seams	K036 or K050

2980 siafin (INOX and carbon steel)	
Grinding and re-finishing of weld seams	P050 or P080



Satin finishing on tubes and square profiles

Constant grinding profile until fully worn down with low machine downtime thanks to bigger grit capacity of 3D nonwoven fibre fleece.

Application with grit recommendation

6130 siavlies HD / 6140 siavlies SD	
Smoothing out of errors	HD medium A
Preparation for electroplating	SD fine A
Satin finishing	SD fine A



Series: 2503 siabite y
Grit: ceramic/semifriable aluminium oxide
Bonding: synthetic resin
Backing: y-weight cloth, polyester
Grit range: K036 – K120



Series: 6130 siavlies HD (Heavy Duty)
Grit: aluminium oxide (A) / silicon carbide (S)
Bonding: synthetic resin
Scrim: 3D nonwoven nylon
Grade: coarse A
medium A/S
fine A/S
very fine A/S



Series: 2829 siaron y
Grit: zirconia alumina/semi-friable aluminium oxide
Bonding: synthetic resin
Backing: y-weight cloth, polyester
Grit range: K024 – K120



Series: 6140 siavlies SD (Super Duty)
Grit: aluminium oxide (A)
Bonding: synthetic resin
Scrim: 3D nonwoven nylon
Grade: medium A
fine A
very fine A



Series: 2980 siafin
Grit: 3D aluminium oxide agglomerate
Bonding: resin over resin
Backing: y-weight cloth, polyester, waterproof
Grit range: P050 – P600

2980 siafin and sia SCM used in combination



2980 siafin (coated abrasive)

sia SCM (nonwoven abrasive)

Perfect results in centerless and flat surface grinding through combined solution

2980 siafin

Long-life grinding belt for a uniform removal rate and consistent surface smoothness. Ideal coordination of bonding agents gives controlled decomposition of grit agglomerate and optimum adhesion to the backing material.

6210 sia SCM

Minimum clogging and optimum life, thanks to non-woven nylon fibre infused with ALOX grit needed to a low stretch polyester scrim backing.

6230 sia SCM Hyperflex™

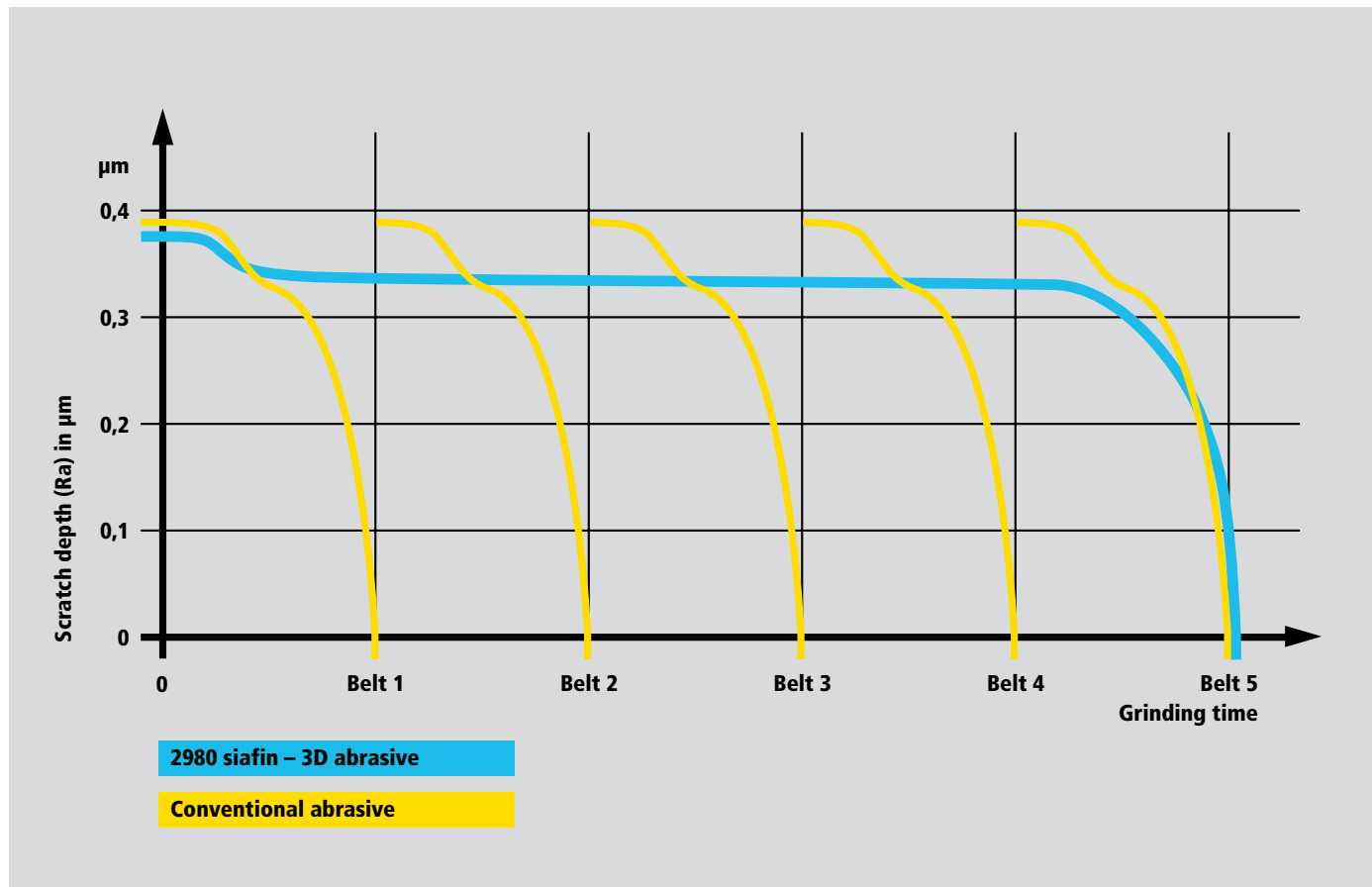
Optimum adaptation to convex or concave square profiles thanks to a special, flexible polyester scrim backing and even dispersal of grit resin bonded throughout its deep nylon fleece layer.

6250 sia SCM

Uniform distribution of grit in nonwoven polyester backing gives a satin finish effect and cool cut.

Surface Conditioning Materials (SCM)

2980 siafin – the new self-sharpening 3D grit with a very long lifetime

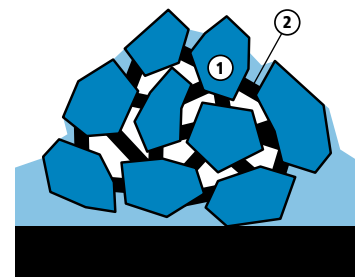


Winning benefits:

- No contact pressure readjustment necessary
- Constant removal through continuous exposure of new cutting edges
- Regular scratch depth due to consistent grinding performance
- Longer abrasive belt lifetime thanks to the granular grit structure
- Lower grinding costs due to longer lifetime and fewer belt changes
- Lower machine downtime thanks to greater grit capacity
- For wet or dry use

The secret of three-dimensional grit

3D grit is made up of many individual grains (1) held together by bonding bridges (2). This gives rise to an abrasive covered with several layers of grit featuring a very high reserve grit capacity. The resulting self-sharpening mechanism considerably prolongs the life of these products.



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