



Metal

High performance abrasives for metal working applications



2 Legend

Contact pressure

- low
- == low to medium
- === medium
- ==== medium to high

Material removal

- marginal
- == medium
- === high
- ==== aggressive

Lifetime

- less
- == good
- === long
- ==== very long

Finish

- coarse
- == consistent
- === fine
- ==== very fine

Flexibility

- rigid
- == strong
- === flexible
- ==== very flexible

Product lines

-  = Coated abrasives
-  = Nonwoven abrasives
-  = Microabrasives

Non-ferrous metals

- A** = Aluminium
- B** = Bronze
- M** = Brass
- = all non ferrous metals

Grit

- CER** Ceramic corundum
- Z** Zirconia alumina
- A** Aluminium oxide
- AG** 3-D Aluminium oxide agglomerate
- SiC** Silicon carbide
- E** Emery
- D** Diamant

Grinding operation

-  = Wet grinding

Pictograph overview

-  Hand grinding
-  Rotary grinding
-  Slack-of-belt-grinding
-  Stroke belt grinding
-  Profile belt grinding
-  Centerless belt grinding
-  Contact belt grinding
-  Die grinder
-  Power-file
-  Mini angle grinder



**Mild steel /
carbon steel**

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Mild steel / carbon steel

The background of the page is an abstract composition of thin, overlapping lines in shades of red and yellow. These lines create a sense of movement and depth. A solid yellow horizontal band spans the width of the page, serving as a background for the text and footer.

Steels are the most commonly used metallic materials. The properties of steel can be adjusted for a wide range of applications by alloying with carbon and other elements in combination with heat and thermomechanical treatment (simultaneous thermal treatment with plastic forming).

6 Mild steel / carbon steel | Grinding solutions

Stock removal		Surface grinding		Fine grinding			sia product	Properties				
Cleaning	Heavy stock removal	Medium stock removal	Light stock removal	Finishing	Pre-polishing	Polishing	Your grinding solution	Grain	Contact pressure	Material removal	Lifetime	Finish
K16 extra-coarse	K24–K50 coarse	K60–K80 heavy medium	K100–K120 medium	K150–K220 fine	K240–K400 very fine	K500–K1200 super fine						Flexibility

Contact belt



High Performance

							2829 siaron	Z	===	===	===	—
///	///		///				6923 siamet hf	A	=	—	===	==

Industrial

							2820 siamet	Z	===	===	==	==
///	///	///	///				6925 siamet scm	A	=	—	===	—

Contact belt



High Performance

							2800 siaron	Z	===	===	==	—
							2980 siafin 3D	AG	===	===	==	—
///	///		///				6923 siamet hf	A	=	—	===	==

Industrial

///	///	///	///				6925 siamet scm	A	=	—	===	—
-----	-----	-----	-----	--	--	--	-----------------	---	---	---	-----	---

Wide belt



High Performance

							2510 siabite	CER	===	===	==	—
///	///		///				6923 siamet hf	A	=	—	===	==

Industrial

							2829 siaron	Z	===	===	==	—
///	///	///	///				6925 siamet scm	A	=	—	===	—

Professional

							2820 siamet	Z	===	===	—	==
							1820 siamet	Z	—	==	==	—

Stock removal		Surface grinding		Fine grinding			sia product	Properties				
Cleaning	Heavy stock removal	Medium stock removal	Light stock removal	Finishing	Pre-polishing	Polishing	Your grinding solution	Grain	Contact pressure	Material removal	Lifetime	Finish
K16 extra-coarse	K24–K50 coarse	K60–K80 heavy medium	K100–K120 medium	K150–K220 fine	K240–K400 very fine	K500–K1200 super fine						

Wide belt



High Performance

							2800 siaron	Z	===	===	===	—
							6923 siamet hf	A	=	—	===	===

Industrial

							6925 siamet scm	A	=	—	===	—
--	--	--	--	--	--	--	-----------------	---	---	---	-----	---

Slack-of and profile belt



High Performance

							2948 siatur	A	=	—	===	===
							6923 siamet hf	A	=	—	===	===

Industrial

							2945 siatur	A	—	—	===	===
							2946 siatur	A	—	—	===	===
							6925 siamet scm	A	=	—	===	—

Stroke belt



High Performance

							2800 siaron	Z	===	===	—	—
							2829 siaron	Z	===	===	—	—
							6923 siamet hf	A	=	—	===	—

Industrial

							2820 siamet	Z	===	===	—	—
							6925 siamet scm	A	=	—	===	—

Professional

							1820 siamet	Z	—	—	—	—
--	--	--	--	--	--	--	-------------	---	---	---	---	---

8 Mild steel / carbon steel | Grinding solutions

Stock removal		Surface grinding		Fine grinding			sia product	Properties					
Cleaning	Heavy stock removal	Medium stock removal	Light stock removal	Finishing	Pre-polishing	Polishing	Your grinding solution	Grain	Contact pressure	Material removal	Lifetime	Finish	Flexibility
K16 extra-coarse	K24–K50 coarse	K60–K80 heavy medium	K100–K120 medium	K150–K220 fine	K240–K400 very fine	K500–K1200 super fine							

Centerless



High Performance

							2800 siaron	Z				—	—
							2980 siafin 3D	AG				—	—
							6923 siamet hf	A	==	—			==

Industrial

							6925 siamet scm	A	==	—	==		==
--	--	--	--	--	--	--	-----------------	---	----	---	----	--	----

Power-file



High Performance

							2829 siaron	Z			==	—	—
							6925 siamet scm	A	==	—	==		==

Industrial

							2820 siamet	Z		==	—	—	==
							2946 siatur	A	—	—	==	==	

Rotary grinding



High Performance

							4819 siaron	Z			==	—	—
							2824 siaflap	Z	==			—	—
							6926 siamet ud	A	==	—			—

Industrial

							1815 siatop	Z	==	==	==	—	—
							6925 siamet scm	A	==	—	==		—
							6300 sia-powerstrip	SiC	==	—	==	—	—

Professional

							4924 siamet	A	==	==	—	—	—
--	--	--	--	--	--	--	-------------	---	----	----	---	---	---

Stock removal		Surface grinding		Fine grinding			sia product	Properties					
Cleaning	Heavy stock removal	Medium stock removal	Light stock removal	Finishing	Pre-polishing	Polishing	Your grinding solution	Grain	Contact pressure	Material removal	Lifetime	Finish	Flexibility
K16 extra-coarse	K24–K50 coarse	K60–K80 heavy medium	K100–K120 medium	K150–K220 fine	K240–K400 very fine	K500–K1200 super fine							

Hand grinding



Professional

							1600 sianor	E	—	—	—	—	—
							2601 sianor	E	—	—	—	—	—
							2915 siarol	A	—	—	—	—	—
							6912 siafleece	A	—	—	—	—	—

Die grinder



High Performance

							9170 siamop	A	—	—	—	—	—
							9166 siafleece siamop	A	—	—	—	—	—
							9167 siamop combi	A	—	—	—	—	—
							6300 siastrip	SiC	—	—	—	—	—
							2824 spiraband	Z	—	—	—	—	—
							6913 siafleece hd	A	—	—	—	—	—
							6914 siafleece sd	A	—	—	—	—	—

Mini angle grinder



High Performance

							2820 siafix	Z	—	—	—	—	—
							scm siafix	A	—	—	—	—	—



Alloy and high-alloy metals





Titanium is a silvery gleaming light metal with high strength, high toughness and excellent corrosion resistance. Due to the high material price, titanium materials are only used for special applications when the combination of properties, i.e. light weight, high strength and corrosion resistance, is required.

Stock removal		Surface grinding		Fine grinding			sia product	Properties					
Cleaning	Heavy stock removal	Medium stock removal	Light stock removal	Finishing	Pre-polishing	Polishing	Your grinding solution	Grain	Contact pressure	Material removal	Lifetime	Finish	Flexibility
K16 extra-coarse	K24–K50 coarse	K60–K80 heavy medium	K100–K120 medium	K150–K220 fine	K240–K400 very fine	K500–K1200 super fine							

Contact belt



High Performance

							2510 siabite	CER	===	===	===	—	—
							2515 siabite	CER	===	===	===	—	—
							2707 siawat	SiC	==	—	==	==	==
							6923 siamet hf	A	==	—	==	==	==

Industrial

							2803 siaron	Z	==	==	==	—	—
							2815 siaron	Z	==	==	==	—	—
							6925 siamet scm	A	==	—	==	==	==

Professional

							2820 siamet	Z	==	==	==	—	==
--	--	--	--	--	--	--	-------------	---	----	----	----	---	----

Contact belt



High Performance

							2800 siaron	Z	==	==	==	—	—
							2980 siafin 3D	AG	==	==	==	—	—
							2707 siawat	SiC	==	—	==	==	==
							6923 siamet hf	A	==	—	==	==	==

Professional

							6925 siamet scm	A	==	—	==	==	—
--	--	--	--	--	--	--	-----------------	---	----	---	----	----	---

Wide belt



High Performance

							2510 siabite	CER	===	===	===	—	—
							2515 siabite	CER	===	===	===	—	—
							2707 siawat	SiC	==	—	==	==	==
							6923 siamet hf	A	==	—	==	==	==

Industrial

							2803 siaron	Z	==	==	==	—	—
							2815 siaron	Z	==	==	==	—	—
							6925 siamet scm	A	==	—	==	==	==

Professional

							1820 siamet	Z	==	==	==	—	—
--	--	--	--	--	--	--	-------------	---	----	----	----	---	---

Stock removal		Surface grinding		Fine grinding			sia product	Properties				
Cleaning	Heavy stock removal	Medium stock removal	Light stock removal	Finishing	Pre-polishing	Polishing	Your grinding solution	Grain	Contact pressure	Material removal	Lifetime	Finish
K16 extra-coarse	K24–K50 coarse	K60–K80 heavy medium	K100–K120 medium	K150–K220 fine	K240–K400 very fine	K500–K1200 super fine						

Wide belt



High Performance

							2800 siaron	Z	===	===	===	—
///	///		///	///	///		6923 siamet hf	A	=	—	===	==

Industrial

							2707 siawat	SiC	===	—	==	==
///	///	///	///		///		6925 siamet scm	A	=	—	===	—

Slack-of and profile belt



High Performance

							2546 siabite	CER	=	==	===	===
///	///		///	///	///		6923 siamet hf	A	=	—	===	==

Industrial

							2948 siatur	A	=	—	===	===
///	///	///	///		///		6925 siamet scm	A	=	—	===	—

Professional

							2945 siatur	A	=	==	==	===
							2946 siatur	A	=	==	==	===

Stroke belt



High Performance

							2510 siabite	CER	===	===	===	—
							2515 siabite	CER	===	===	===	—
///	///		///	///	///		6923 siamet hf	A	=	—	===	==

Industrial

							2803 siaron	Z	===	===	==	—
							2815 siaron	Z	===	===	==	—
///	///	///	///		///		6925 siamet scm	A	=	—	===	—

Professional

							2820 siamet	Z	===	==	—	—
							1820 siamet	Z	=	—	—	—

Stock removal		Surface grinding		Fine grinding			sia product	Properties					
Cleaning	Heavy stock removal	Medium stock removal	Light stock removal	Finishing	Pre-polishing	Polishing	Your grinding solution	Grain	Contact pressure	Material removal	Lifetime	Finish	Flexibility
K16 extra-coarse	K24–K50 coarse	K60–K80 heavy medium	K100–K120 medium	K150–K220 fine	K240–K400 very fine	K500–K1200 super fine							

Centerless



High Performance

							2800 siaron	Z	===	===	===	—	—
							2980 siafin 3D	AG	===	===	===	—	—
							6923 siamet hf	A	==	—	===	===	==

Industrial

							6925 siamet scm	A	=	—	==	===	==
--	--	--	--	--	--	--	-----------------	---	---	---	----	-----	----

Power-file



High Performance

							2510 siabite	CER	===	===	===	—	—
							2515 siabite	CER	===	===	===	—	—
							6923 siamet hf	A	=	—	===	===	==

Industrial

							2707 siawat	SiC	=	—	=	==	==
							2803 siaron	Z	===	===	===	—	—
							2815 siaron	Z	===	===	===	—	—
							6925 siamet scm	A	=	—	=	===	—
							2948 siatur	A	—	==	==	===	===

Professional

							2820 siamet	Z	=	==	—	—	=
--	--	--	--	--	--	--	-------------	---	---	----	---	---	---

Rotary grinding



High Performance

							4515 siabite	CER	===	===	===	—	—
							2828 siaflap	Z	===	===	===	—	—
							6926 siamet ud	A	=	—	===	===	—

Industrial

							4815 siacut	Z	===	===	=	—	—
							6925 siamet scm	A	=	—	=	===	—
							6300 sia-powerstrip	A	=	—	==	—	—

Professional

							1815 siatop	Z	=	==	—	—	—
							4924 siamet	A	===	==	—	—	—

Stock removal		Surface grinding		Fine grinding			sia product	Properties				
Cleaning	Heavy stock removal	Medium stock removal	Light stock removal	Finishing	Pre-polishing	Polishing	Your grinding solution	Grain	Contact pressure	Material removal	Lifetime	Finish
K16 extra-coarse	K24–K50 coarse	K60–K80 heavy medium	K100–K120 medium	K150–K220 fine	K240–K400 very fine	K500–K1200 super fine						

Hand grinding



Professional

							1600 sianor	E	—	—	—	—
							2601 sianor	E	—	—	—	—
							2915 siarol	A	—	—	—	—
							6912 siafleece	A	—	—	—	—

Die grinder



High Performance

							9170 siamop	A	—	—	—	—
							9166 siafleece siamop	A	—	—	—	—
							9167 siamop combi	A	—	—	—	—
							2824 spiraband	Z	—	—	—	—
							6913 siafleece hd	A	—	—	—	—
							6914 siafleece sd	A	—	—	—	—
							6300 siastrip plus	A	—	—	—	—

Mini angle grinder



High Performance

							2820 siafix	Z	—	—	—	—
							scm siafix	A	—	—	—	—

The background of the slide is an abstract composition of bright, glowing orange and yellow light streaks and fibers, resembling sparks or molten metal, set against a dark background. A solid yellow horizontal banner is positioned across the middle of the image, containing the title text.

Non-ferrous metals



Non-ferrous metals is the term given to metals which are not iron and do not contain iron, or to alloys in which iron is not a main element (e.g. aluminium, bronze and brass).



Stock removal		Surface grinding		Fine grinding			sia product	Properties						
Cleaning	Heavy stock removal	Medium stock removal	Light stock removal	Finishing	Pre-polishing	Polishing	Your grinding solution	Grain	Contact pressure	Material removal	Lifetime	Finish	Flexibility	Material
K16 extra-coarse	K24–K50 coarse	K60–K80 heavy medium	K100–K120 medium	K150–K220 fine	K240–K400 very fine	K500–K1200 super fine								

Contact belt



High Performance														
							2829 siaron	Z	===	===	===	—	—	•
							2707 siawat	SiC	===	===	===	===	—	M/B
							6923 siamet hf	A	===	—	===	===	—	•
Industrial														
							2820 siamet	Z	===	===	===	===	—	•
							6925 siamet scm	A	===	—	===	===	—	•
Professional														
							2920 siawood	A	===	—	—	—	—	A

Contact belt



High Performance														
							2800 siaron	Z	===	===	===	—	—	•
							6923 siamet hf	A	===	—	===	===	—	•
Industrial														
							2707 siawat	SiC	===	—	===	===	—	M
							6925 siamet scm	A	===	—	===	===	—	•

Wide belt



High Performance														
							2800 siaron	Z	===	===	===	—	—	•
							2707 siawat	SiC	===	===	===	===	—	M
							6923 siamet hf	A	===	—	===	===	—	•
Industrial														
							6925 siamet scm	A	===	—	===	===	—	•
Professional														
							1939 siawood	A	—	===	—	—	—	•

Stock removal		Surface grinding		Fine grinding			sia product	Properties						
Cleaning	Heavy stock removal	Medium stock removal	Light stock removal	Finishing	Pre-polishing	Polishing	Your grinding solution	Grain	Contact pressure	Material removal	Lifetime	Finish	Flexibility	Material
K16 extra-coarse	K24–K50 coarse	K60–K80 heavy medium	K100–K120 medium	K150–K220 fine	K240–K400 very fine	K500–K1200 super fine								

Wide belt



High Performance

							2800 siaron	Z	===	===	===	—	—	•
							2707 siawat	SiC	==	==	==	==	==	M
							6923 siamet hf	A	===	—	==	==	==	•

Industrial

							6925 siamet scm	A	===	—	==	==	—	•
--	--	--	--	--	--	--	-----------------	---	-----	---	----	----	---	---

Slack-of and profile belt



High Performance

							2747 siatur	SiC	==	==	==	==	==	M
							2948 siatur	A	==	==	==	==	==	A/M
							6923 siamet hf	A	==	—	==	==	==	•

Industrial

							2945 siatur	A	==	—	==	==	==	A/M
							2946 siatur	A	==	—	==	==	==	A/M
							6925 siamet scm	A	==	—	==	==	—	•

Stroke belt



High Performance

							2800 siaron	Z	===	===	===	—	—	•
							2707 siawat	SiC	===	===	===	==	==	M
							6923 siamet hf	A	==	—	==	==	==	•

Industrial

							2820 siamet	Z	===	===	==	—	==	•
							2920 siawood	A	==	—	==	—	==	•
							6925 siamet scm	A	==	—	==	==	—	•

Professional

							1820 siamet	Z	—	—	==	—	—	•
							1920 siawood	A	—	—	==	—	—	•

Stock removal		Surface grinding		Fine grinding			sia product	Properties						
Cleaning	Heavy stock removal	Medium stock removal	Light stock removal	Finishing	Pre-polishing	Polishing	Your grinding solution	Grain	Contact pressure	Material removal	Lifetime	Finish	Flexibility	Material
K16 extra-coarse	K24–K50 coarse	K60–K80 heavy medium	K100–K120 medium	K150–K220 fine	K240–K400 very fine	K500–K1200 super fine								

Power-file



High Performance

							2800 siaron	Z				—	—	•
							2707 siawat	SiC						•
							6923 siamet hf	A		—				•

Industrial

							2820 siamet	Z						A
							6925 siamet scm	A		—			—	A
							2945 siatur	A	—	—				A
							2946 siatur	A	—	—				•

Rotary grinding



High Performance

							4815 siacut	Z				—	—	B
							2824 siaflap	Z					—	A
							4819 siaron	Z				—	—	A
							6923 siamet ud	A		—			—	•

Industrial

							4919 siaral	A				—	—	A
							1815 siatop	Z			—		—	•
							6925 siamet scm	A		—			—	•
							6300 sia-powerstrip	A		—		—	—	A

Professional

							1919 siawood	A	—	—	—		—	A
							4924 siamet	A				—	—	•

Hand grinding



Professional

							1600 sianor	E	—	—	—			•
							2601 sianor	E	—	—	—			•
							2915 siarol	A				—		•
							6912 siafleece	A	—	—				•

Stock removal		Surface grinding		Fine grinding			sia product	Properties						
Cleaning	Heavy stock removal	Medium stock removal	Light stock removal	Finishing	Pre-polishing	Polishing	Your grinding solution	Grain	Contact pressure	Material removal	Lifetime	Finish	Flexibility	Material
K16 extra-coarse	K24–K50 coarse	K60–K80 heavy medium	K100–K120 medium	K150–K220 fine	K240–K400 very fine	K500–K1200 super fine								

Die grinder



High Performance

							9170 siamop	A	—	—	—	—	—	•
							9166 siafl. siamop	A	—	—	—	—	—	•
							9167 siamop combi	A	—	—	—	—	—	•
							6300 siastrip	SiC	—	—	—	—	—	•
							2824 spiraband	Z	—	—	—	—	—	•
							6913 siafleece hd	A	—	—	—	—	—	•
							6914 siafleece sd	A	—	—	—	—	—	•
							6300 siastrip plus	A	—	—	—	—	—	•

Mini angle grinder



High Performance

							2820 siafix	Z	—	—	—	—	—	•
							scm siafix	A	—	—	—	—	—	•

A close-up photograph showing a metal workpiece being processed by a micro-finishing tool. The tool, which has a small, rounded, and polished tip, is in contact with the workpiece. The workpiece surface is highly reflective and shows fine, concentric circular marks from the finishing process. The background is dark and out of focus, emphasizing the precision of the micro-finishing operation.

Micro-Finishing



CR-Finishing® (Constant Result Finishing) is an efficient method in which every finishing task is considered part of the entire process. Micro-Finishing products have been designed specifically to suit application procedures, workpieces and materials. This ensures that the required surface results are achieved the first time.

Micro-Finishing													sia product	Properties							
100 µm (150)	80 µm (180)	60 µm (240)	50 µm (280)	45 µm (320)	40 µm (360)	30 µm (500)	20 µm (800)	15 µm (1200)	12 µm (1500)	9 µm (2000)	6 µm (2500)	5 µm (2700)	3 µm (3000)	Your grinding solution		Special polyester foil	Anti-slip coating	Slurry coated	Electrostatic spread	Wet grinding	Dry sanding



Copper rollers													5910 microtec	A	75 µm		✓		✓	
----------------	--	--	--	--	--	--	--	--	--	--	--	--	---------------	---	-------	--	---	--	---	--

Chrome / hard chrome rollers													5910 microtec	A	75 µm		✓		✓	
------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	---------------	---	-------	--	---	--	---	--

Zinc rollers													5910 microtec	A	75 µm		✓		✓	
--------------	--	--	--	--	--	--	--	--	--	--	--	--	---------------	---	-------	--	---	--	---	--

Hardened steel rollers													5210 siacarat microtec	D	75 µm		✓		✓	
													5910 microtec	A	75 µm		✓		✓	

Plasma-coated rollers (ceramic)													5210 siacarat microtec	D	75 µm		✓		✓	
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Rubber and plastic rollers													5710 microtec	SiC	75 µm		✓		✓	✓
													5702 microtec	SiC	125 µm	✓		✓	✓	✓

Teflon rollers													5710 microtec	SiC	75 µm		✓		✓	✓
													5702 microtec	SiC	125 µm	✓		✓	✓	✓

100 µm (150)
80 µm (180)
60 µm (240)
50 µm (280)
45 µm (320)
40 µm (360)
30 µm (500)
20 µm (800)
15 µm (1200)
12 µm (1500)
9 µm (2000)
6 µm (2500)
5 µm (2700)
3 µm (3000)



Watch cases

Bracelets

Metallurgical test objects

Micro-Finishing											sia product		Properties								
100 µm (150)	80 µm (180)	60 µm (240)	50 µm (280)	45 µm (320)	40 µm (360)	30 µm (500)	20 µm (800)	15 µm (1200)	12 µm (1500)	9 µm (2000)	6 µm (2500)	5 µm (2700)	3 µm (3000)	Your grinding solution							
															Grain	Special polyester foil	Anti-slip coating	Slurry coated	Electrostatic spread	Wet grinding	Dry sanding



Crankshafts

														5902 microtec	A	125 µm	✓		✓	✓	
														5903 microtec	A	75 µm	✓		✓	✓	

Camshafts

														5902 microtec	A	125 µm	✓		✓	✓	
														5903 microtec	A	75 µm	✓		✓	✓	

Steering assembly parts

														5910 microtec	A	75 µm		✓		✓	
														5900 microtec	A	75 µm			✓	✓	
														5902 microtec	A	125 µm	✓		✓	✓	
														5903 microtec	A	75 µm	✓		✓	✓	

Shock absorber parts

														5910 microtec	A	75 µm		✓		✓	
														5900 microtec	A	75 µm			✓	✓	
														5902 microtec	A	125 µm	✓		✓	✓	
														5903 microtec	A	75 µm	✓		✓	✓	

Valves

														5910 microtec	A	75 µm		✓		✓	
														5900 microtec	A	75 µm			✓	✓	
														5902 microtec	A	125 µm	✓		✓	✓	
														5903 microtec	A	75 µm	✓		✓	✓	

Micro-Finishing														sia product	Properties						
100 µm (150)	80 µm (180)	60 µm (240)	50 µm (280)	45 µm (320)	40 µm (360)	30 µm (500)	20 µm (800)	15 µm (1200)	12 µm (1500)	9 µm (2000)	6 µm (2500)	5 µm (2700)	3 µm (3000)	Your grinding solution	Grain	Special polyester foil	Anti-slip coating	Slurry coated	Electrostatic spread	Wet grinding	Dry sanding

Hydraulic components

														5910 microtec	A	75 µm		✓		✓	
														5900 microtec	A	75 µm			✓	✓	
														5902 microtec	A	125 µm	✓		✓	✓	
														5903 microtec	A	75 µm	✓		✓	✓	

Pneumatic components

														5910 microtec	A	75 µm		✓		✓	
														5900 microtec	A	75 µm			✓	✓	
														5902 microtec	A	125 µm	✓		✓	✓	
														5903 microtec	A	75 µm	✓		✓	✓	

Ball bearings

														5910 microtec	A	75 µm		✓		✓	
														5900 microtec	A	75 µm			✓	✓	
														5902 microtec	A	125 µm	✓		✓	✓	
														5903 microtec	A	75 µm	✓		✓	✓	

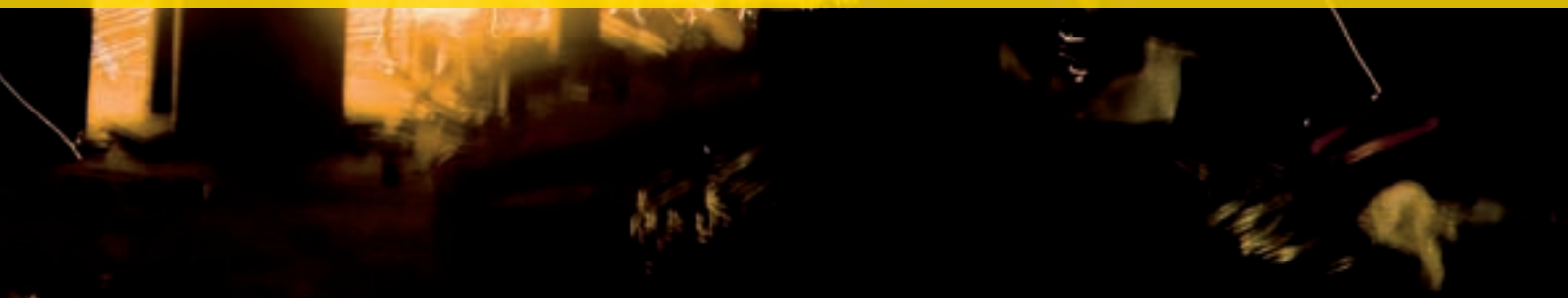




Application engineering



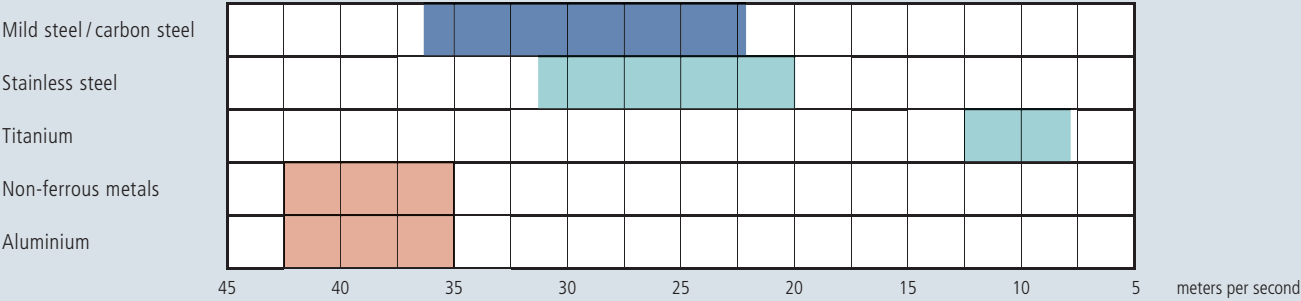
The variety of potential applications for coated abrasives and nonwoven abrasives has led to the development of numerous sanding technologies. In order to achieve perfect surface results, sanding and grinding must be considered as part of a complete system, which requires workpieces, machines, tools and applications to be optimally matched to each other.



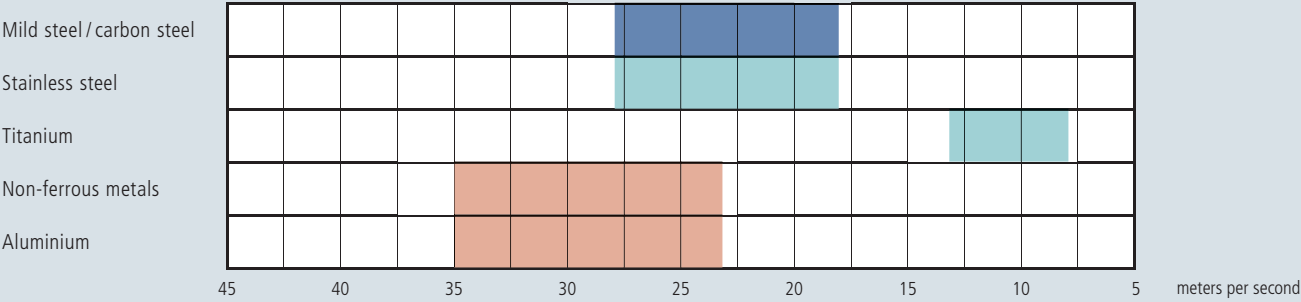
Stationary grinders

Correct speed for excellent results.

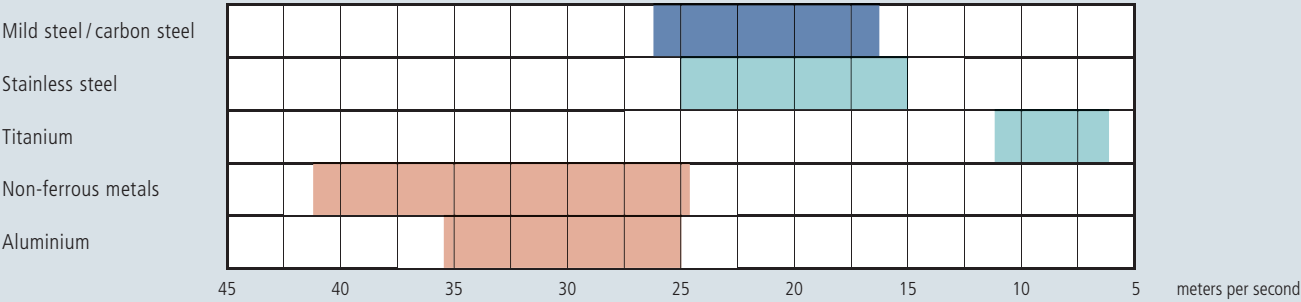
Contact belt grinding



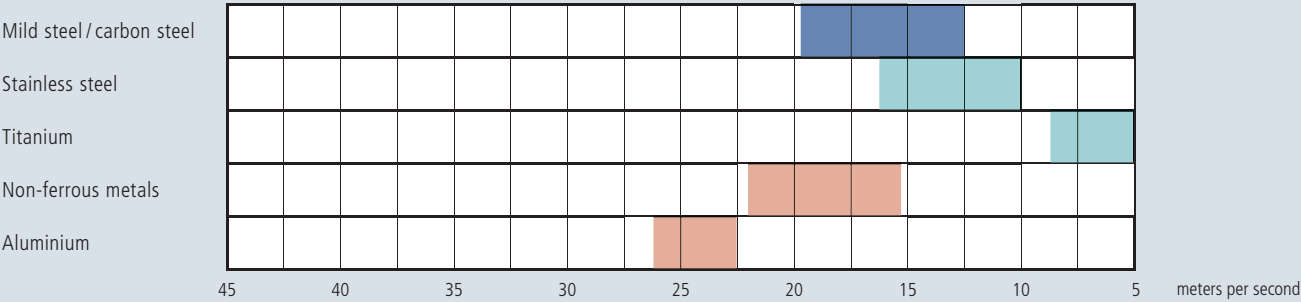
Wide belt grinding



Slack-of-belt and profile belt grinding



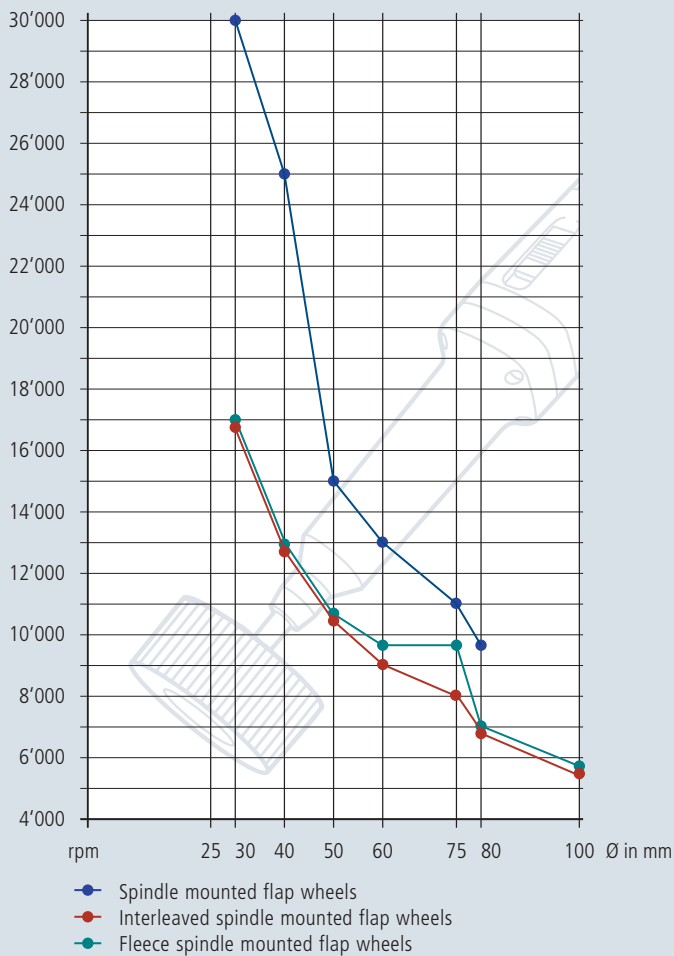
Stroke belt grinding



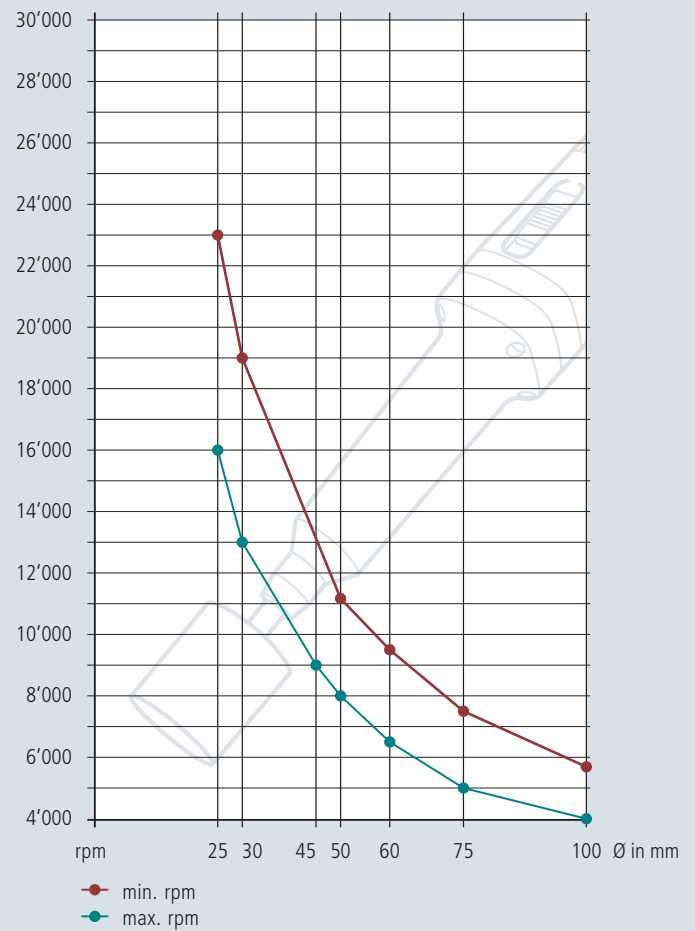
Hand grinding machines

Recommended speed in rpm (rpm = rounds per minute).

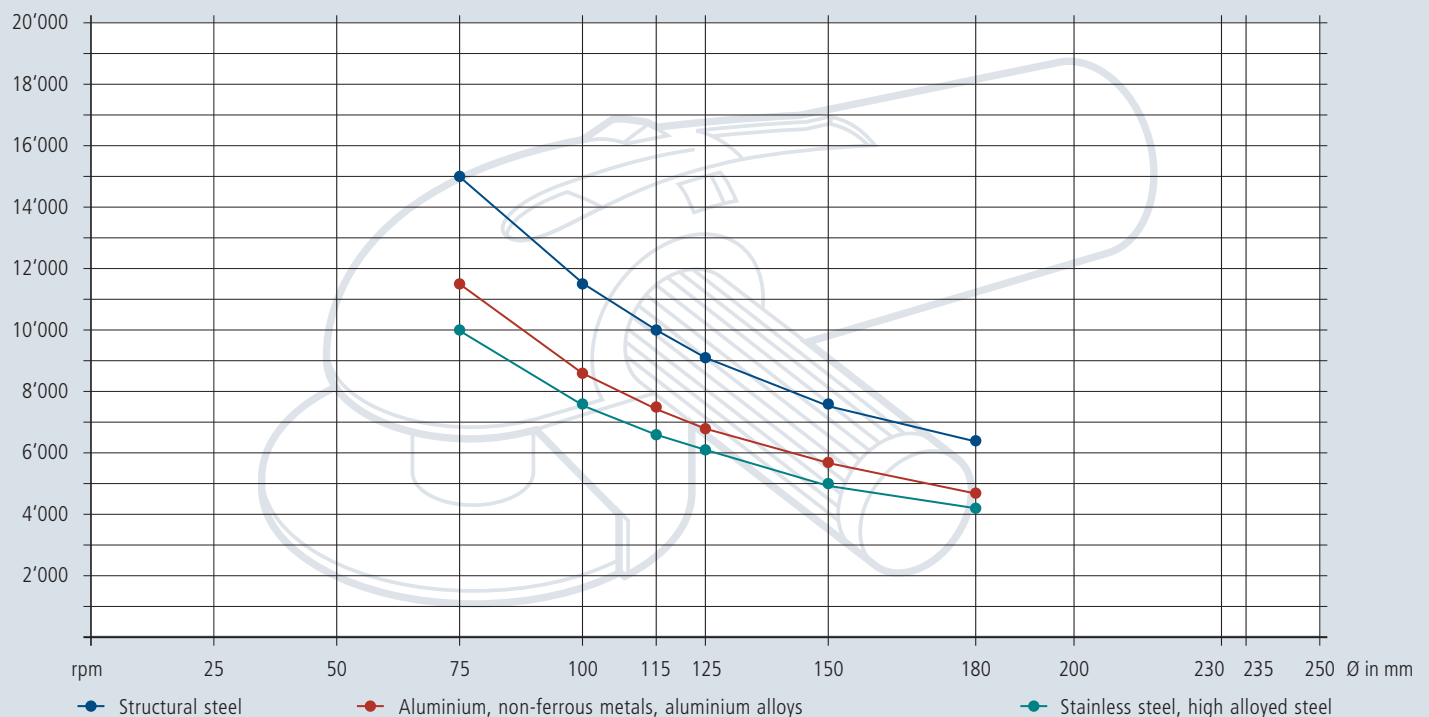
Flap wheels



Spirabelts



Fibre discs



Perfect results in surface grinding through combined solution

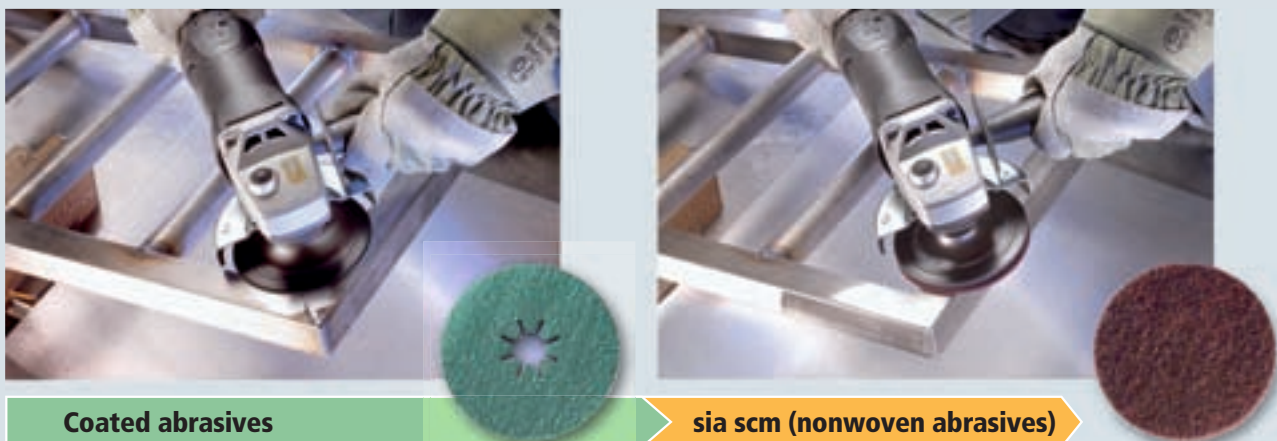
sia scm (surface conditioning materials) are designed to be used on machines, converted as either discs or belts. Thanks to the advanced manufacturing techniques the sia scm range has the flexibility and conformability to produce a consistent finish on any work piece.

Used in combination with sia Abrasives coated products, sia scm products provide system solutions to a perfect surface in the least number of processes. sia scm products refine grind-lines in fewer steps from the finishing process, or can be used individually for surface preparation or for final finishing.

Centerless and flat surface grinding



Hand grinding

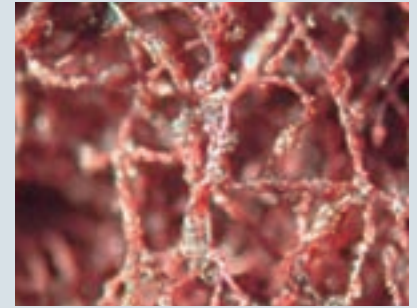


Nonwoven abrasives

Nonwoven products are manufactured by means of a continuous treatment process in which the base fibres are carded, coated and needle-punched to form the fleece. This three-dimensional material is sprayed with a mixture of flexible resins and abrasive grits that penetrates through the fleece.

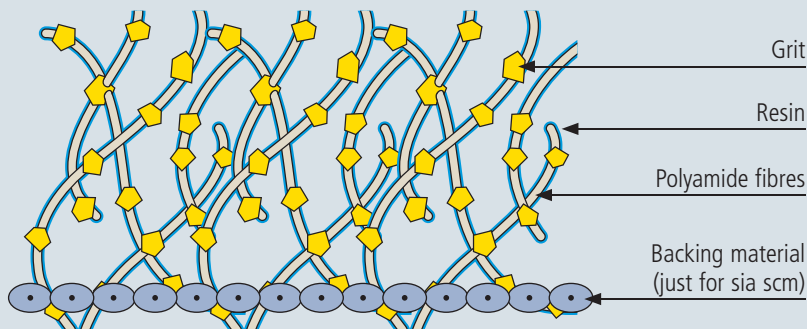
This technology has a lot of advances compared with traditionally alternatives:

- Nonwoven products are conformable.
- Uniform distribution of grit in nonwoven polyester backing gives a satin finish effect and cool cut. Consistent performance over the whole product lifetime.
- Low clogging tendency.
- May be used wet or dry. Can be used in combination with abrasive fluids.



Microscope enlargement

A three-dimensional nonwoven abrasive manufactured using a spraying process



Material					Application					Backing															
Mild steel / carbon steel	Alloy and high-alloy metals	Titanium	Non-ferrous metals	Aluminium	Heavy-duty	Standard	Light	Polishing	Wet grinding	x-wt cloth / polyester	y-wt cloth / polyester	x-wt cloth / cotton	j-wt cloth / cotton	jj-wt cloth / cotton	x-wt cloth / mixed fabric	y-wt cloth / mixed fabric	b-wt paper	f-wt paper	Vulcanized fibre 0.38	Vulcanized fibre 0.65	Vulcanized fibre 0.80	Vulcanized fibre 0.84	Active additives	2nd size coat	
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● main application
○ minor application

Commitment



Company

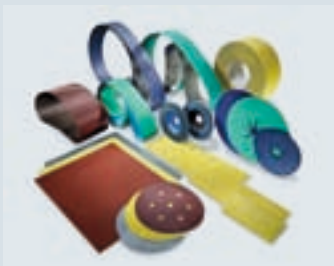
The sia Group is based in Frauenfeld, Switzerland, and is one of the world's top three suppliers of innovative abrasives. sia develops, manufactures and sells complete sanding systems tailored to specific requirements and applications of all kinds, transforming sanding into surface technology.

sia Abrasives employs about 1250 people and is represented in more than 80 countries.

Top-quality products from Switzerland

Our careful choice of premium materials, the latest production and manufacturing equipment and sophisticated production technologies enable us to provide sanding products of the highest level. Abrasive materials from sia undergo continuous development based on demanding customer requirements and our detailed analysis of production materials. They thus represent the finest examples of Swiss precision and quality with one goal: a commitment to the perfect surface.

Innovative abrasives



Coated abrasives

Classic flexible abrasives and systems for conventional surface treatment on all types of material.



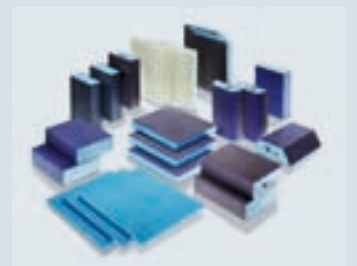
Nonwoven abrasives

Nonwoven products for preparation and cleaning tasks and for structuring, especially on metal.



Microabrasives

Products on special polyester film to give defined surface structures in the areas of graphics, optics and the auto industry.



Foam abrasives

Foam sanding pads in the widest possible range of shapes and grades for precision sanding on wood, fillers, paintwork and varnish.

Environment



Environmental-friendly production, competent and ethical waste disposal

For many years we have concerned ourselves with the efficient use of energy and committed ourselves to protecting the environment. We have implemented many measures within our production processes to protect the air, earth and water. We use our energy and raw-material resources efficiently and carefully.

We care.

By joining the EnAW (Energy Agency for Industry) programme, we have voluntarily made a commitment to improve energy efficiency and limit our CO₂ emissions as part of our day-to-day operations.

We take responsibility.

As a «dry factory», we protect nature by not putting untreated industrial wastewater back into the water system (i.e. public drains). Weekly testing of additional industrial wastewater for compliance with regulations demonstrates that our wastewater is clean.

Quality



Choosing raw materials, setting quality standards

The comprehensive inspection programme in place in our manufacturing operations enables us to produce premium-quality products. The superior properties of sia products represent excellent value for our customers.

We verify.

We select our raw materials and their suppliers in accordance with strict criteria on quality, environmental impact and safety. Long-standing partnerships and continuous testing of raw materials ensure good-quality, reliable and fault-free materials.

We continually optimise.

Our internal process management system (PMS) records and improves important procedures and allows direct intervention in the production process where necessary. In this we can operate an active, committed opportunity-management programme.

People



A safe, healthy workplace

We set the standard for an accident- and hazard-free workplace. The well-being of people is an integral part of our culture and is based on OHSAS 18001 (Occupational Health and Safety Management Systems).

We are clean.

We develop products that also effectively help our customers remain healthy. We have had our finishing products tested for dust formation by the Swiss Accident Insurance Fund (SUVA). The results are impressive: the lowest dust emissions compared with our competitors' products.

We set an example.

sia Abrasives is one of the first companies in the world to comply with the new OHSAS 18001:2007 standard. We also comply strictly with the recommendations of the FEPA safety standards and publish this, together with other safety information, at www.sia-abrasives.com.



«REACH»

Regulations for chemicals

REACH (Registration, Evaluation and Authorisation of Chemicals) concerns a European Community regulation dealing with chemicals and has been in force since June 2007. Its purpose is to gather all necessary information regarding the properties of chemical substances and to examine their use and the associated risks to humans and the environment. We ensure compliance with REACH by keeping up-to-date records of all chemical materials and substances and by taking all necessary steps to meet our REACH obligations.



www.sia-abrasives.com

Coated abrasives

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hf = hyperflex
 scm = surface conditioning materials
 ud = ultradisc
 hd = heavy duty
 sd = super duty

Microabrasives

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SAF = self adhesive foil

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Art. ID: 0020.5819.01
03.175.en.0310
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