



General Fabrication

Grinding solutions for metal professionals

**Abrasives
for real
Specialists**





Grinding Solutions

System Solutions	Page 08
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Product Range

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sia Abrasives



Global partner

Developed and manufactured using Swiss technology and represented in over 80 countries: sia Abrasives markets complete abrasive systems for all kinds of surfaces with its 1300 employees worldwide.

World's most modern abrasives plant

Setting the pace for the next generations of abrasives: Innovative abrasives are manufactured "just in time" using a modularised production process in the high innovative Maker 5 plant.

Production expertise

The technology leader is setting new standards with the world's most state-of-the-art abrasives production plant, the Maker 5.

Visit us online:



- ▶ Product search
- ▶ Clearly arranged comparison of products
- ▶ Accessible anytime from anywhere

www.sia-abrasives.com

Industrial Know-how

As a world-leading manufacturer of high-quality abrasives with more than 140 years of expertise and innovativeness, we know the process steps of our customers and offer the right sanding solution for any material.

Fabrication



Tanks / Containers



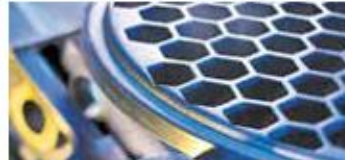
Metal Construction



Plant / Machinery



Casting / Forging



Ship Building



Types of abrasives

Over 60.000 abrasive products in a variety of abrasive formats, sizes and specifications for all materials, applications and requirements.



Coated abrasives

- Classical coated abrasives and abrasive systems
- For advanced surface treatment of all types of material



Nonwoven abrasives

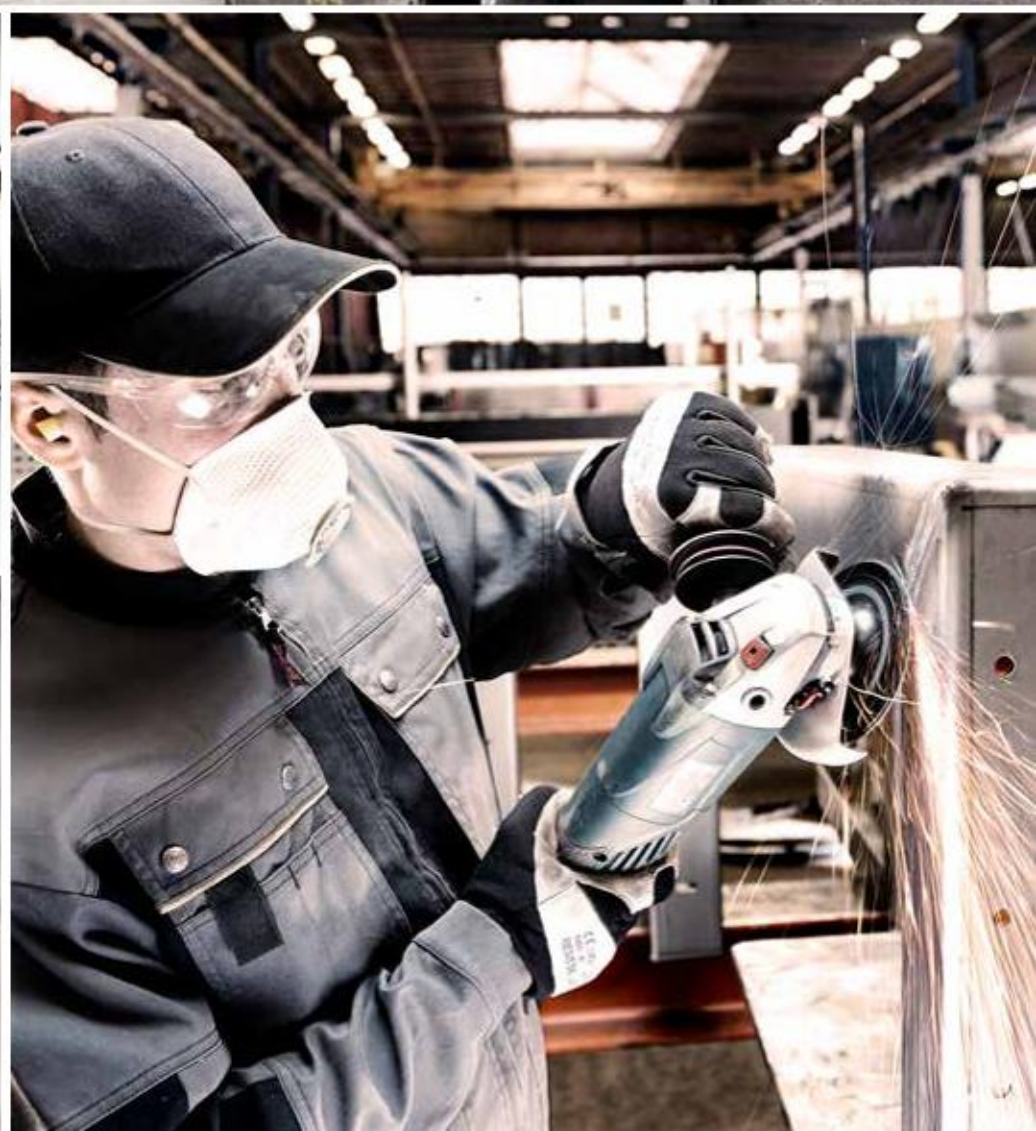
- Nonwoven products for preparation and cleaning tasks and for structuring
- Especially for use on metal



Foam abrasives

- Foam sanding pads in the widest possible range of shapes and grades
- For precision treatment of wood, fillers, paints and lacquers

Grinding Solutions





System Solutions

Paint preparation mild steel
2K Finish high-alloyed steel

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Best Practise

Rust removal

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Industry Approved

Road tanker manufacturer
Tank manufacturer

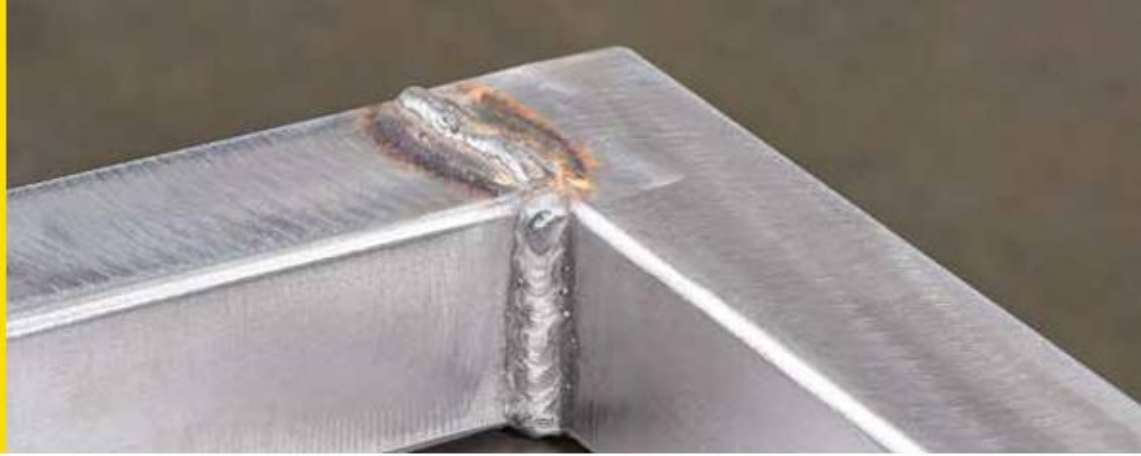
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Mild/Stainless steel fabricator

Passenger train maintenance

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System Solution
Paint preparation
 Mild Steel



The sia-Standard
 For everyday work.

1 Weld Removal



4560 siabite



Ceramic Fibre Disc
 Grit: #36
 Angle grinder
 11'000 rpm recommended*
 Turbo I Fibre Disc
 Backing Pad



2 Surface Refinement



6270 siamet SCM LS



SCM Disc
 Grit: Coarse
 Angle grinder
 7'500 rpm recommended*
 SCM Backing Pad



Maximum Lifetime
 When product lifetime really counts!

1 Weld Removal



2824 siaflap



Zirconia Flap Disc
 Grit: #40
 Angle grinder
 11'000 rpm recommended*

2 Surface Refinement



6924 siamet HD



SCM Disc
 Grit: Coarse
 Angle grinder
 7'500 rpm recommended*
 SCM Backing Pad



Maximum Speed
 When the job needs to be finished fast!

1 Weld Removal



4570 siabite X



Ceramic Fibre Disc
 Grit: #36+
 Angle grinder
 11'000 rpm recommended*
 Turbo II Fibre Disc
 Backing Pad



2 Surface Refinement



6924 siamet HD



SCM Disc
 Grit: Extra Coarse
 Angle grinder
 7'500 rpm recommended*
 SCM Backing Pad



* Speed recommendations based on 115 mm and 125 mm disc diameter.
 For other sizes different speed recommendations apply.



3 Final Finishing**



1815 siatop



siafast Disc
Grit: #80
D/A sander
full speed recommended
siafast Backing Pad

Up to **40%** quicker



Compared to traditional 4-step approach

3 Final Finishing**



1815 siatop



siafast Disc
Grit: #80
D/A sander
full speed recommended
siafast Backing Pad

Up to **6x** longer lifetime



Compared to sia-Standard process

3 Final Finishing**



2546 siabite



siafast Disc
Grit: #80
D/A sander
full speed recommended
siafast Backing Pad

Up to **70%** faster



Compared to traditional 4-step approach


** Additional 3rd step for wet coating / 30 mic powder

System Solution
2K Finish
 Stainless Steel




The sia-Standard
 For everyday work.


1 Weld Removal



4560 siabite



Ceramic Fibre Disc
 Grit: #80
 Angle grinder
 7'500 rpm recommended*



Standard Fibre Disc
 Backing Pad

2 Surface Refinement



6270 siamet SCM LS




Disc
 Grit: Medium
 Angle grinder
 7'500 rpm recommended*




SCM Backing Pad

Maximum Speed
 When the job needs to be finished fast!


1 Weld Removal



4570 siabite X



Ceramic Fibre Disc
 Grit: #80+
 Angle grinder
 7'500 rpm recommended*



Standard Fibre Disc
 Backing Pad

2 Surface Refinement



6924 siamet HD



Disc
 Grit: Medium
 Angle grinder
 7'500 rpm recommended*



SCM Backing Pad

*Speed recommendations based on 115 mm and 125 mm disc diameter. For other sizes different speed recommendations apply.



3 Pre-finishing



6130 siamop interleaved



Sanding wheel
Grit: Fine A / 180
Burnishing machine
full speed recommended*

4 Final-finishing



6120 siafleece



Pad
Grit: Medium S

Up to
-10%
material costs

Compared with average traditional process steps.

3 Pre-finishing



6130 siamop interleaved



Sanding wheel
Grit: Fine A / 180
Burnishing machine
full speed recommended*

4 Final-finishing



6120 siafleece



Pad
Grit: Extra cut S

Up to
20%
time savings

Compared to sia-standard process

Best Practise
**Rust
Removal**



Conventional SCM disc



**SCM Disc
115 mm
Extra Coarse**

SCM disc can also be used for rust removal.



Conventional fibre disc



**Fibre Disc
115 mm, # 36**

Fibre discs are often used for rust removal.



sia Abrasives: siastrip disc



**6300 siastrip
115 mm
Extra Coarse**

Fibre glass backed disc.





siasstrip disc – For a fast and efficient cleaning process



Test conditions:
Material: Mild steel sheet
Area: 250 x 300mm
Application: Angle grinder, 1500 W
Speed: 11,000 rpm



Needed time: 9 min 10 sec
Result: discs load very quickly
Consumption: 6 discs used



Needed time: 8 min 8 sec
Result: discs glaze very quickly
Consumption: 5 discs used



Needed time: 3 min 7 sec
Result: fast surface cleaning,
no glazing, no loading
Consumption: 1 disc used



Up to 3x faster
and more efficient cleaning process*

* Compared to alternative products above

Industry approved
**Road Tank
 Manufacturer**



1 Weld removal

2511 siabite
 Ceramic belt
 75 x 2000 mm
 Grit: #50



2 Cleaning weld spatter

2824 siaflap
 Flap disc
 125 mm
 Grit: #80



3 Refinement

6270 siamet SCM LS
 SCM disc
 115 mm
 Grit: medium



Industry approved
**Tank
 Manufacturer**



1 Weld removal

4570 siabite X
 Fibre Disc
 115 mm
 Grit: #80+



2 Weld refinement

6270 siamet SCM LS
 SCM Disc
 115 mm
 Grit: coarse



3 Refinement

2511 siabite
 Sander sleeves
 100 x 283 mm
 Grit: #120



Customer

A large manufacturer of stainless steels road tankers

User target

- Speed up process and reduce working time
- Reduce costs, specifically for the refinement and pre-polishing application

Application Challenge

- Removal of large TIG welds
- Cleaning weld spatter with minimal damage to work piece surface
- Surface refinement to a pre-polish finish
- Originally 6-steps were required to complete the job



TESTED & PROVEN
by Industrial Specialist



Customer

A leading stainless steel tank manufacturer

User target

- Improve the final finish quality and therefore reduce re-working
- Reduce overheating and distortion in welded areas
- Improve process efficiency and throughput

Application Challenge

- Removal of TIG welds with minimal heat creation
- Provide a consistently reproducible surface finish with as few process steps as possible



TESTED & PROVEN
by Industrial Specialist



* Compared to previous process; per year

Industry approved
**Mild / Stainless
 Steel Fabricator**



1 **Weld removal**

Stainless

4570 siabite X
 Ceramic Fibre Disc
 115 mm
 Grit: #60+

2 **Weld refinement**

6270 siamet SCM LS
 SCM Disc
 115 mm
 Grit: coarse

3 **Pre-graining**

2803 siaron
 Zirc Sander Sleeves
 100 x 283 mm
 Grit: #120

1 **Weld removal**

Mild steel

4570 siabite X
 Ceramic Fibre Disc
 115 mm
 Grit: #60+

2 **Weld refinement**

6924 siamet hd
 SCM Disc
 115 mm
 Grit: coarse

3 **Surface finishing**

1815 siatop
 siafast Discs
 150 mm
 Grit: #120

Industry approved
**Passenger Train
 Maintenance**



1 **Removal**
 of old paint, smoothing of sharp metal edges

2824 siaflap
 siafix Flap Discs
 50 mm
 Grit: #40

2 **Keying**
 of metal surface prior to paint preparation

1950 siaspeed
 Coated Abrasives Disc
 150 mm
 Grit: #40, multi-hole

Customer

A medium sized fabricator of general products made from mild and stainless steel

User target

- Maximise efficiencies and improve process time

Application Challenge

- Weld removal and surface preparation for painting on mild steel
- Weld removal and structured satin finishing on stainless steel in less than the current 6 process steps being used



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by Industrial Specialist

4 Re-graining

6270 siamet SCM LS

Sander sleeves
100 x 289 mm
Grit: medium



save **33%** grinding time*

save **10%** abrasive cost*

Customer

A prominent maintenance provider within the rail industry

User target

- Reduce dust contamination and improve overall application efficiency

Application Challenge

- Remove old paint from roof section (previously done via sandblasting)
- Prepare aluminium metal surface for new paint application



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save **200 hrs**
operator time*

* Compared to previous process; per year

Products



Angle grinder

► Product overview



Cutting and grinding discs



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Flap discs



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Fibre discs



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SCM discs



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siastrip discs



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D/A orbital sander



siafast discs



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Pistol grinder, die grinder, burnishing machine



siafix quick change system



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Spiralbands



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Spindle mounted flap wheels



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Sanding wheels



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Belt machines



Belts – Heavy backing



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Belts – Flexible backing



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Belts – SCM



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Hand sanding



Nonwoven hand pads



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Nonwoven rolls



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Coated rolls



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Accessories



Backing pads



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Mounting systems








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Cutting and Grinding Discs

Applications

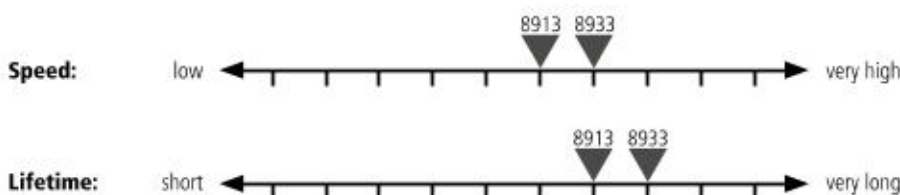
- Cutting
- Grinding

Bonded abrasives	8913 siacut	8933 siagrind
		
Best for	General cutting	Heavy grinding
Advantages	<ul style="list-style-type: none"> • Designed for stainless and mild steel applications • Excellent price/performance ratio 	<ul style="list-style-type: none"> • Optimised design for steel grinding • Long lifetime • Excellent price/performance ratio
Product profile		
Grit type:	Aluminium oxide	Aluminium oxide
Grit range:	24 - 60	24/300
Backing:	Glass fibre reinforced	Glass fibre reinforced
Coating:	T and S	S
Materials		
Non-alloy / low-alloy / mild steels	▼	▼
High alloy steel / stainless steel	▼	▽
Non-ferrous metals	▽	▽
Other metals	▽	▽
Application		
Heavy-duty	▽	▼
Standard	▼	▽
Light	▽	
Dimensions		
Diameter	Ø 76 – 230 mm	Ø 100 – 230 mm
Thickness	1.0 – 3.0 mm	6.0 mm
Variant	T41 flat 	T27 DC 
Safety	En ... OSA ...	

- ▼ Main application
- ▽ Secondary application

Further products available on www.sia-abrasives.com





The right product for your application



Flap Discs

Applications

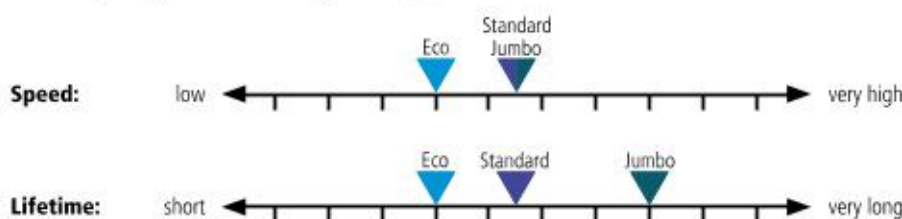
- Heavy stock removal
- Weld removal
- Deburring
- Weld preparation
- Removing discolouration
- Surface treatment

Coated Abrasives	2824 siaflap Jumbo	2824 siaflap Standard	2824 siaflap Eco
			
Best for	Longest life	General grinding	Low cost
Advantages	<ul style="list-style-type: none"> • Thicker construction • Uniform cutting speed • Extremely Long lifetime 	<ul style="list-style-type: none"> • Good removal rate • Consistent surface quality • Long lifetime 	<ul style="list-style-type: none"> • Economic & universal • Optimised cloth backing • Good removal rate
Product profile			
Grit type:	Zirconia alumina	Zirconia alumina	Zirconia alumina
Grit range:	40; 60; 80	40; 60; 80; 120	40; 60; 80
Backing:	x-wt cloth	x-wt cloth	x-wt cloth
Coating:	Active Additives	Active Additives	Active Additives
Materials			
Non-alloy / low-alloy / mild steels	▼	▼	▼
High alloy steel / stainless steel	▽	▽	▽
Non-ferrous metals	▽	▽	▽
Other metals			
Application			
Heavy	▼		▼
Standard	▽	▼	▼
Light		▽	▽
Dimensions			
Diameter	Ø 115 – 125 mm	Ø 115 – 180 mm	Ø 115 – 125 mm
Variat	T29 Angled, Fibre Glass	T27 Flat, Fibre Glass, Plastic T29 Angled, Fibre Glass	T29 Angled, Fibre Glass

- ▼ Main application
- ▽ Secondary application

Further products available on www.sia-abrasives.com

The right product for your application



Expert tip: Longer lifetime







Flap discs offer a more comfortable grinding experience than bonded discs, as well as offering longer lifetime than fibre discs. This makes them an ideal choice when product lifetime is of primary importance.



Fibre Discs

Applications

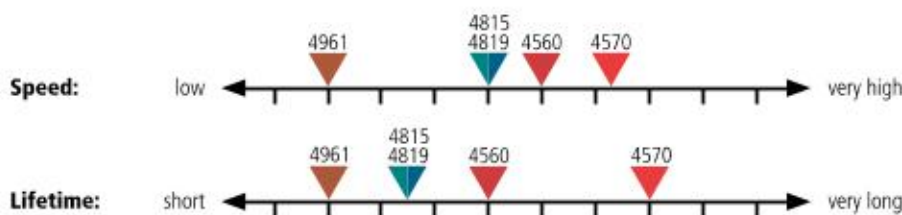
- Weld removal
- Weld preparation
- Removing discolouration
- Sanding down
- Surface treatment
- Smoothing and blending of flaws
- Deburring

	4570 siabite X	4560 siabite	4815 siacut	4819 siaron 8	4961 sialoX
					
Best for	Simply the coolest grinding with new X-Technology	A premium allrounder	Stainless steel fine sanding	General grinding	Light applications
Advantages	<ul style="list-style-type: none"> • Cool grinding • Long lifetime • Consistent cutting performance • Fine surface finish 	<ul style="list-style-type: none"> • High performance – total stock removal • Firm fibre backing • Reduced discolouration 	<ul style="list-style-type: none"> • Aggressive cut • Firm fibre backing • Reduced discolouration 	<ul style="list-style-type: none"> • High removal rate • Long lifetime • Versatile • Firm fibre backing 	<ul style="list-style-type: none"> • Versatile all-round product • Excellent price/ performance ratio
Product profile					
Grit type:	Ceramic aluminium oxide	Ceramic aluminium oxide	Zirconia alumina	Zirconia alumina	Aluminium oxide
Grit range:	36+; 60+; 80+, 120+	36; 50 – 120	24; 36; 50 – 150	24; 36 – 120	16; 24; 36 – 120
Backing:	Fibre	Fibre	Fibre	Fibre	Fibre
Coating:	X-Technology	Cooling top coat	Cooling top coat	Active additives	Active additives
Materials					
Non-alloy / low-alloy / mild steels	▼	▽	▽	▼	▼
High alloy steel / stainless steel	▼	▼	▼	▽	▽
Non-ferrous metals	▽			▼	▼
Other metals	▼	▽	▽		
Application					
Heavy-duty	▼	▼			
Standard	▼	▼	▼	▼	▼
Light	▽	▽	▽	▽	▼
Dimensions					
Diameter	Ø 100 – 180 mm	Ø 115 – 180 mm	Ø 100 – 180 mm	Ø 100 – 180 mm	Ø 100 – 180 mm

- ▼ Main application
- ▽ Secondary application

Further products available on www.sia-abrasives.com

The right product for your application



Expert tip: Turbo-Pad II

Aggressive grinding thanks to a heavy duty and ribbed design which helps to increase contact pressure between the disc and the workpiece. Long Lifetime due to heat resistant thermostable plastic. A perfect match for coarse fibre discs when maximum stock removal is a must!





SCM Discs

Applications

- Surface refinement
- Removing discolouration
- Blending of flaws

- Surface treatment
- Deburring
- Removal of rust and paint

Nonwoven Abrasives	6924 siamet hd	6270 siamet SCM LS
		
Best for	Quick cut	Long lifetime
Advantages	<ul style="list-style-type: none"> • Highest aggressiveness • Excellent performance on metal materials • Fastest stock removal 	<ul style="list-style-type: none"> • Long lifetime • Consistent surface finish • Good edge stability
Product profile		
Grit type:	Aluminium oxide	Aluminium oxide
Grit range:	extra coarse – medium	Coarse - Very fine
Backing:	Scrim	Scrim
Coating:	–	–
Materials		
Non-alloy / low-alloy / mild steels	▼	▼
High alloy steel / stainless steel	▼	▼
Non-ferrous metals	▽	▼
Other metals	▼	▼
Application		
Heavy	▼	▽
Standard	▼	▼
Light	▽	▽
Dimensions		
Diameter	Ø 115 – 178 mm	Ø 100 – 178 mm

- ▼ Main application
- ▽ Secondary application

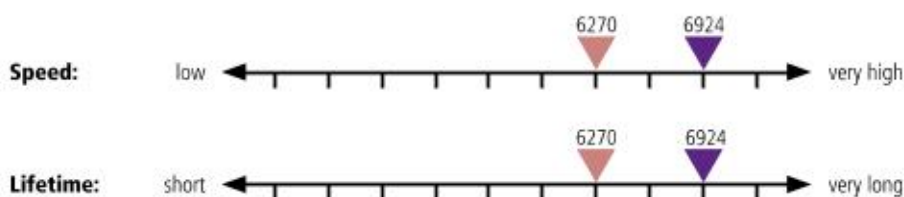
Further products available on www.sia-abrasives.com

3 in 1
sia Abrasives SCM discs have a modular construction. You can use all discs with 3 different mounting options.



Version A Version B Version C

The right product for your application



Expert tip:

For best finish and product lifetime reduce the angle grinder speed to 2/3 (approx. 7500 rpm).



siastrip Discs

Applications

- Rust removal
- Coating removal from all metal
- Light scale removal
- Weld cleaning
- Graffiti removal from stone and concrete
- Epoxy removal

Nonwoven Abrasives	6300 siastrip
	
Best for	Rust removal
Advantages	<ul style="list-style-type: none"> • No damage to underlying material • No clogging • Fast working at low working temperature
Product profile	
Grit type:	Silicon Carbide
Grit range:	Extra Coarse
Backing:	Nylon fibre structure
Materials	
Non-alloy / low-alloy / mild steels	▼
High alloy steel / stainless steel	▽
Non-ferrous metals	▼
Concrete & Stone	▽
Application	
Heavy	
Standard	▼
Light	▼
Dimensions	
Diameter	T27: Ø 100, 115, 125 mm on special request: Ø 100, 150 mm siafix: Ø 50 - 75 mm

- ▼ Main application
- ▽ Secondary application

Available for angle grinders and for die grinders for mandrel application.
Further products available on www.sia-abrasives.com



Expert tip: Maximum efficiency







For maximum efficiency reduce the angle grinder speed to half (approx. 5500 rpm) this will extend the product lifetime.
Ideal for removing rust and paint prior to welding, the specially designed web structure allows the efficient removal of surface contaminants without damaging the underlying material below. Also suitable for use on composites, wood, and concrete.



siafast Discs

Applications

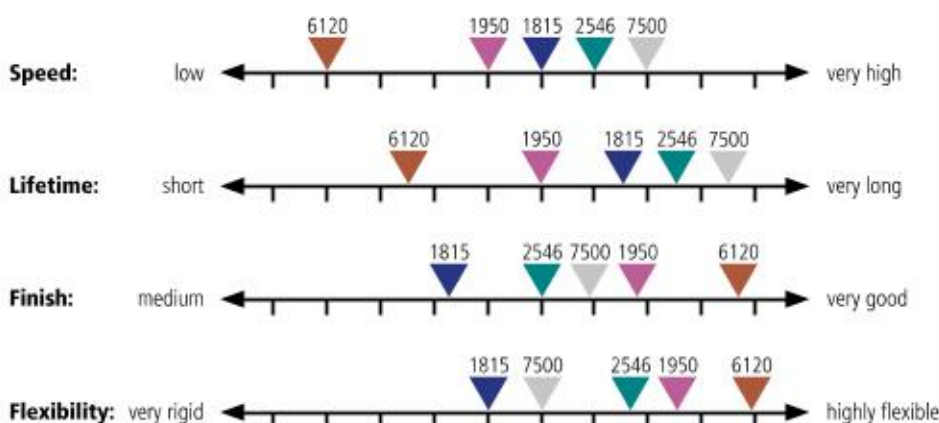
- Light weld removal (1815)
- Removal of paint and rust
- Removing discolouration
- Deburring
- Surface treatment
- Blending of flaws

Coated Abrasives	2546 siabite	1815 siatop	1950 siaspeed	7500 sianet CER	6120 siafleece
					
Best for	Contour applications	Light stock removal	Aluminium finishing	Longest lifetime on Aluminium	Fine finishing
Advantages	<ul style="list-style-type: none"> • Very flexible backing – ideal for contours • Long lifetime • Heat reduced cutting 	<ul style="list-style-type: none"> • High edge stability • Light fibre backing in coarse grits • Aggressive cut 	<ul style="list-style-type: none"> • Ceramic content in coarse grits • Ideal for aluminium, paint, composites, plastics • Great for light applications 	<ul style="list-style-type: none"> • Aggressive ceramic grain for fast sanding • Full-surface dust extraction • High tear resistance thanks to net backing 	<ul style="list-style-type: none"> • Very flexible • Ideal for surface finishing
Product profile					
Grit type:	Ceramic aluminium oxide	Zirconia alumina	Aluminium oxide / ceramic	Ceramic aluminium oxide	Aluminium oxide Silicon carbide
Grit range:	60 – 240	24 – 150	40 – 600	80 – 400	coarse – ultra fine S
Backing:	jj-wt cloth	Fibre / f-wt paper	c-wt paper	Net	Nonwoven
Coating:	Cooling top coat	Active additives	–	–	–
Materials					
Non-alloy / low-alloy / mild steels	▽	▼	▽		▼
High alloy steel / stainless steel	▼	▽			▼
Non-ferrous metals		▼	▼	▼	▽
Other metals	▽		▽	▽	▽
Application					
Heavy	▽	▽			
Standard	▼	▼	▽	▼	▼
Light			▼	▽	▼
Dimensions					
Diameter	Ø 115 – 180 mm	Ø 115 – 180 mm	Ø 125 – 150 mm	Ø 125 – 150 mm	Ø 125 – 150 mm

- ▼ Main application
- ▽ Secondary application

Further products available on www.sia-abrasives.com

The right product for your application



Expert tip: Extended backing pad life

To maximise the life of the backing pad use a sia intermediate interface pad. Particularly useful during tough applications involving edge work.



siafix Quick Change System

Applications

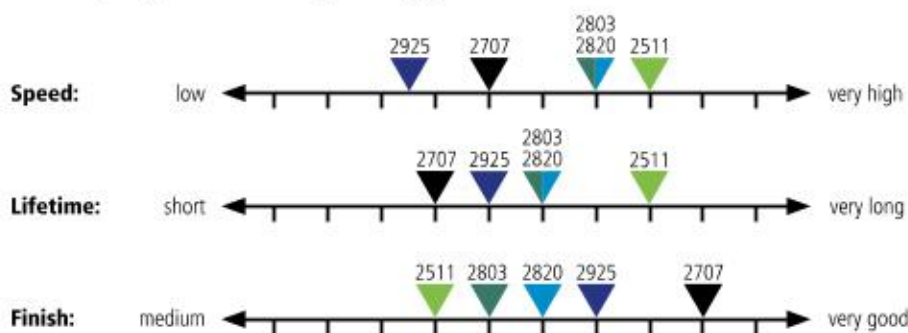
- Deburring
- Light weld removal
- Removing rust
- Removing discolouration
- Surface treatment
- Blending
- Structuring and final sanding

Coated Abrasives	2511 siabite	2803 siaron y	2820 siamet	2925 sialoX	2707 siawat
Best for	Fastest stock removal	General stainless steel applications	General grinding and finishing on multiple metals	Fine finishing	Titanium
Advantages	<ul style="list-style-type: none"> • Long lifetime • Aggressive cut • Heat-reduced cutting 	<ul style="list-style-type: none"> • Reduce discolouration • Excellent performance and lifetime • High removal rate with low pressure 	<ul style="list-style-type: none"> • High edge stability, high tear resistance • High performance 	<ul style="list-style-type: none"> • High edge stability, high tear resistance • For general use 	<ul style="list-style-type: none"> • Versatile • Ideal for glass, plastics, composites
Product profile					
Grit type	Ceramic aluminium oxide	Zirconia alumina	Zirconia alumina	Aluminium oxide	Silicon carbide
Grit range	36 – 120	36 – 180	36 – 320	24 – 320	60 – 320
Backing	y-wt cloth	x-wt cloth	y-wt cloth	x-wt cloth	x-wt cloth
Coating	Cooling top coat	Cooling top coat	Active additives	Active additives	–
Materials					
Non-alloy / low-alloy / mild steels	▽	▽	▼	▼	
High alloy steel / stainless steel	▼	▼	▽	▽	▽
Non-ferrous metals			▼	▼	
Other metals	▽	▽			▼
Application					
Heavy	▼	▼	▽		
Standard	▽	▽	▼	▼	▼
Light			▼	▼	▽
Dimensions					
Diameter	Ø 20 – 75 mm	Ø 25 – 75 mm	Ø 20 – 75 mm	Ø 20 – 75 mm	Ø 20 – 75 mm

- ▼ Main application
- ▽ Secondary application

Further products available on www.sia-abrasives.com

The right product for your application



Expert tip: 2-step solution

The system solution from coarse sanding through to finishing. Using a combination of coated abrasives and SCM products provides a high removal rate at first and an optimum surface finish at the end.

Example: on stainless steel bracket with TIG weld seam

Step 1:
2511 siabite, grit of 80

Step 2:
6924 siamet hd, medium

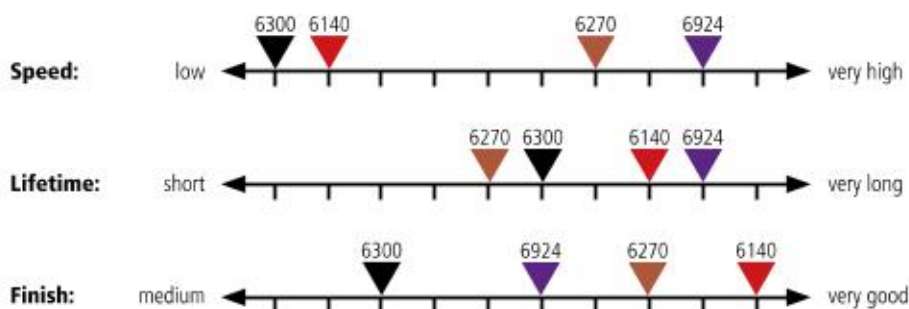



Nonwoven Abrasives	6924 siamet hd	6270 siamet SCM LS	6140 siafleece sd	6300 siastrip
				
Best for	Quick cut	Edge work	Aluminium finishing	Rust removal
Advantages	<ul style="list-style-type: none"> • Major time-saving • More resistant on edges • Low smearing tendency 	<ul style="list-style-type: none"> • Long lifetime • Excellent surface quality 	<ul style="list-style-type: none"> • Consistent sanding pattern and long lifetime • High tear resistance • Low clogging 	<ul style="list-style-type: none"> • No clogging • Excellent performance and lifetime
Product profile				
Grit type	Aluminium oxide	Aluminium oxide	Aluminium oxide	Silicon carbide
Grit range	extra coarse – medium	coarse – superfine	coarse – very fine	extra coarse
Backing	Scrim	Scrim	Cloth	Nylon Fibre Structure
Coating	–	–	–	–
Materials				
Non-alloy / low-alloy / mild steels	▼	▼	▼	▼
High alloy steel / stainless steel	▼	▼	▼	▽
Non-ferrous metals	▽	▽	▼	▼
Other metals	▼	▽	▽	
Application				
Heavy	▼			
Standard	▼	▼		▼
Light	▽	▼	▼	▼
Dimensions				
Diameter	Ø 20 – 75 mm	Ø 20 – 75 mm	Ø 20 – 75 mm	Ø 50 – 75 mm

▼ Main application
 ▽ Secondary application

Further products available on www.sia-abrasives.com

The right product for your application









siafix

Fastening system

Type: S / 2


Type: R / 3

Spiralbands

Applications

- Deburring
- Finishing
- Blending of flaws

Coated Abrasives	2511 siabite	2820 siamet	2923 sialoX
			
Best for	Fastest stock removal	General grinding and finishing on multiple metals	Fine finishing
Advantages	<ul style="list-style-type: none"> • Up to 200% more stock removal than Alox • Up to 15% longer lifetime than competition equivalent • Cool grinding • Excellent price performance ratio 	<ul style="list-style-type: none"> • Up to 70% more stock removal than Alox • Effective on both mild steel and stainless steel 	<ul style="list-style-type: none"> • Good surface quality • Most economical product for mild steel applications
Product profile			
Grit type:	Ceramic aluminium oxide	Zirconia alumina	Aluminium oxide
Grit range:	36; 60; 80; 120	36 – 150	50; 80; 150
Backing:	x-wt cloth	x-wt cloth	x-wt cloth
Coating:	Cooling top coat	Active additives	–
Materials			
Non-alloy / low-alloy / mild steels	▽	▼	▼
High alloy steel / stainless steel	▼	▽	▽
Non-ferrous metals		▽	▼
Other metals	▽	▽	
Application			
Heavy	▼	▽	
Standard	▼	▼	▼
Light	▽	▽	▽
Dimensions			
Diameter	Ø 15 – 75 mm	Ø 10 – 60 mm	Ø 10 – 75 mm
Width	20 – 30 mm	20 – 30 mm	20 – 30 mm

- ▼ Main application
- ▽ Secondary application

Further products available on www.sia-abrasives.com





The right product for your application



Spindle-Mounted Flap Wheels

Applications

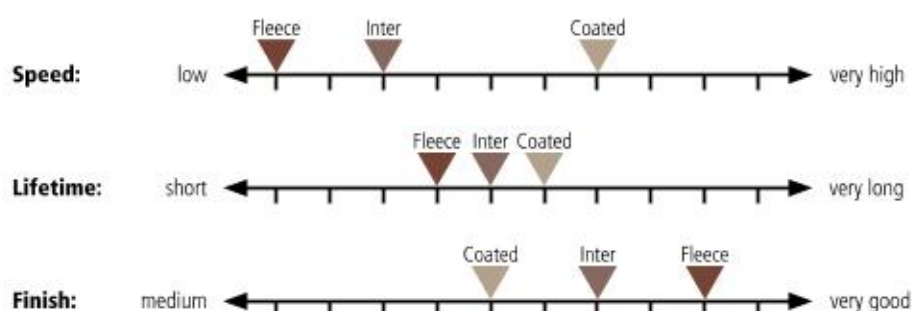
- Deburring
- Blending of flaws
- Structuring / finishing
- Removing discoloration

Nonwoven Abrasives	2923 siamop	6120 siamop Interleaved	6120 siamop Nonwoven
			
Best for	Fastest stock removal	Blending applications	Fine finishing
Advantages	<ul style="list-style-type: none"> • Wide range of applications • Highly flexible • Versatile • Fast stock removal 	<ul style="list-style-type: none"> • Great for blending • Higher conformability • Combined surface treatment and finishing 	<ul style="list-style-type: none"> • Perfect for re-graining and finishing on stainless steel • Highest conformability • Choice between matte or bright surface finish
Product profile			
Grit type:	Aluminium oxide	Aluminium oxide	Aluminium oxide, Silicium carbide
Grit range:	40; 60; 80; 120; 150	coarse A / 60*; medium A / 120*; fine A / 180*; very fine A / 240*	extra coarse A; coarse A; medium A; medium S; fine A; very fine A
<small>*(nonwoven / coated grit)</small>			
Backing:	x-wt cloth	x-wt cloth, nonwoven	Nonwoven
Materials			
Non-alloy / low-alloy / mild steels	▼	▼	▼
High alloy steel / stainless steel	▽	▼	▼
Non-ferrous metals	▽	▽	▽
Other metals	▽	▽	▽
Application			
Heavy	▼		
Standard	▼	▼	▼
Light	▽	▽	▽
Dimensions			
Diameter	Ø 20 – 80 mm	Ø 38 – 100 mm	Ø 38 – 100 mm
Width	10 – 50 mm	10 – 50 mm	10 – 50 mm

- ▼ Main application
- ▽ Secondary application

Further products available on www.sia-abrasives.com




The right product for your application



Sanding Wheels

Applications

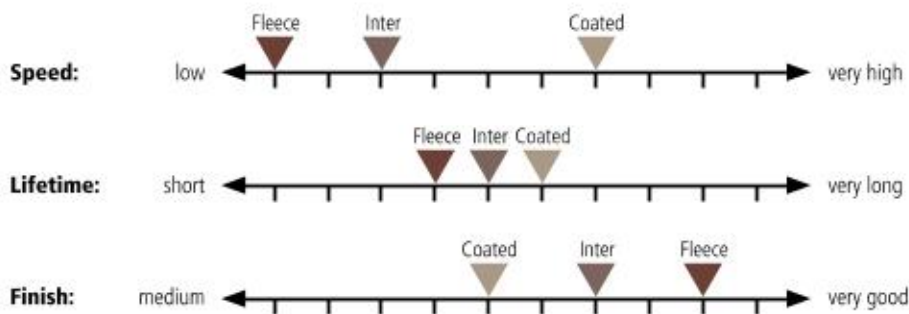
- Deburring
- Blending of flaws
- Structuring / finishing
- Removing discolouration

Nonwoven Abrasives	2923 siamop	6130 siamop Interleaved	6130 siamop Nonwoven
			
Best for	Fastest stock removal	Blending	Fine finishing
Advantages	<ul style="list-style-type: none"> • Excellent surface quality • Long lifetime 	<ul style="list-style-type: none"> • Great for blending • Combined surface treatment and finishing • Ideal for regraining 	<ul style="list-style-type: none"> • Perfect for fine finishing on stainless steel • High conformability
Product profile	Aluminium oxide	Aluminium oxide	Aluminium oxide
Grit type	40; 60; 80; 120; 180; 240	coarse A / 60*; medium A / 120*; fine A / 180*; very fine A / 240*	coarse A; medium A; very fine A
Grit range			
*Inwoven / coated grit			
Backing	x-wt cloth	x-wt cloth, nonwoven	Nonwoven
Materials			
Non-alloy / low-alloy / mild steels	▼	▼	▼
High alloy steel / stainless steel	▽	▼	▼
Non-ferrous metals	▽	▽	▽
Other metals	▽	▽	▽
Application			
Heavy	▼		
Standard	▼	▼	▼
Light	▽	▽	▽
Dimensions			
Diameter	100 mm	100 mm	100 mm
Width	100 mm	100mm	100 mm
Centre bore	19 mm	19 mm	19 mm

- ▼ Main application
 ▽ Secondary application

Further products available on www.sia-abrasives.com

The right product for your application



Expert tip: Perfect Results




Use the Fine A Interleaved wheel as a part of the sia-system solution for a perfect 2K grained finish on stainless steel.



Belts – Heavy Backings

Applications

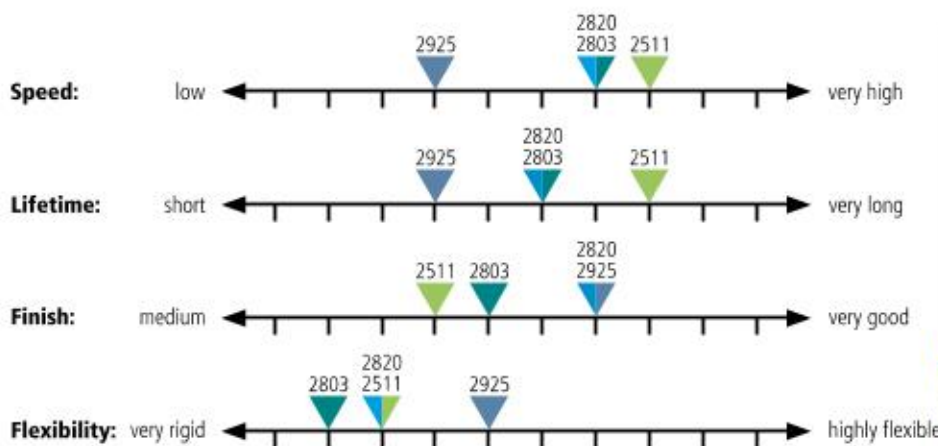
- Weld preparation
- Sanding down
- Deburring
- Blending of flaws
- Weld removal
- Surface treatment
- Structuring and final sanding
- Removal of rust

Coated Abrasives	2511 siabite	2803 siaron	2820 siamet	2925 sialoX
				
Best for	Fastest stock removal	General stainless steel applications	General grinding and finishing on multiple metals	Fine finishing
Advantages	<ul style="list-style-type: none"> • Long lifetime • Heat-reduced cutting • High-performance product 	<ul style="list-style-type: none"> • Reduce discolouration • High edge stability 	<ul style="list-style-type: none"> • High performance for all metals • Suitable for dry and wet grinding applications • Aggressive cut 	<ul style="list-style-type: none"> • For general use in dry and wet grinding applications
Product profile				
Grit type	Ceramic aluminium oxide	Zirconia alumina	Zirconia alumina	Aluminium oxide
Grit range	36 – 120	36 – 180	36 – 400	24 – 400
Backing	x-wt cloth	x-wt cloth	x-wt cloth	x-wt cloth
Coating	Cooling top coat	Cooling top coat	Active additives	Active additives
Materials				
Non-alloy / low-alloy / mild steels	▽	▽	▼	▼
High alloy steel / stainless steel	▼	▼	▽	▽
Non-ferrous metals			▼	▼
Other metals	▼	▽	▽	▽
Application				
Heavy	▼	▽	▽	
Standard	▼	▼	▼	▼
Light			▽	▽

- ▼ Main application
- ▽ Secondary application

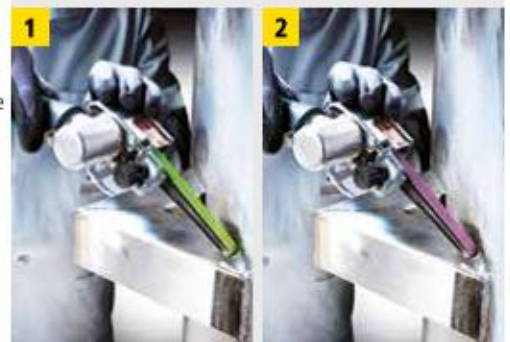
Further products available on www.sia-abrasives.com

The right product for your application



Expert tip: 2-step solution





For the ultimate process solutions a combination of coated and nonwoven scm belts can offer considerable time savings and increased production output.



Belts – Flexible Backings

Applications

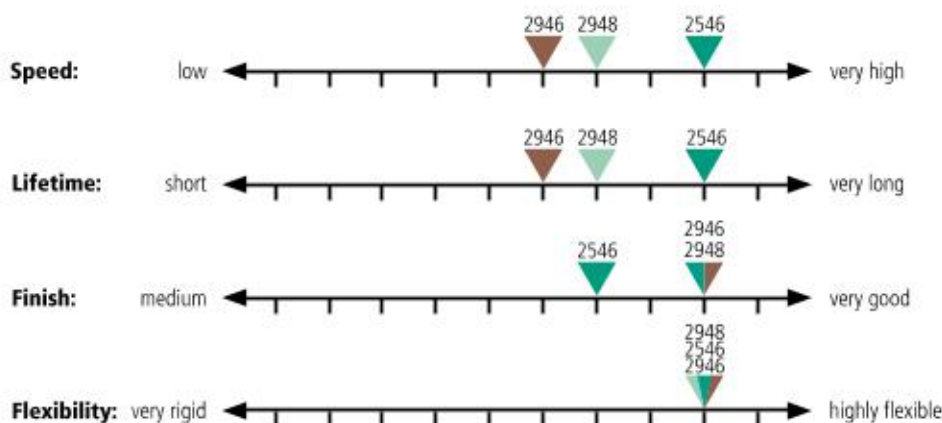
- Surface refinement
- Initial polishing
- Structuring and final sanding
- Sanding contours and curves

Coated Abrasives	2546 siabite	2946 siatur	2948 siatur
			
Best for	Longest life on stainless steel	Fine finishing on mild steel	Fine finishing on stainless steel
Advantages	<ul style="list-style-type: none"> • High stock removal • Reduce discolouration • Highly adaptable to contours 	<ul style="list-style-type: none"> • Highly adaptable to contours • Excellent surface quality • Versatile 	<ul style="list-style-type: none"> • Reduce discolouration • Highly adaptable to contours • Excellent price / performance ratio
Product profile			
Grit type	Ceramic aluminium oxide	Aluminium oxide	Aluminium oxide
Grit range	60 – 400	60 – 600	80 – 600
Backing	jj-wt cloth	jj-wt cloth	jj-wt cloth
Coating	Cooling top coat	Active additives	Cooling top coat
Materials			
Non-alloy / low-alloy / mild steels	▽	▼	▽
High alloy steel / stainless steel	▼	▽	▼
Non-ferrous metals	▼	▼	▼
Other metals	▼	▽	▼
Application			
Heavy	▼	▼	▼
Standard	▽	▽	▽
Light	▼	▼	▼

- ▼ Main application
- ▽ Secondary application

Further products available on www.sia-abrasives.com

The right product for your application



Belts – SCM

Applications

- Removing discolouration
- Refining coated belts scratches
- Surface treatment
- Blending of flaws
- Restructuring and regaining

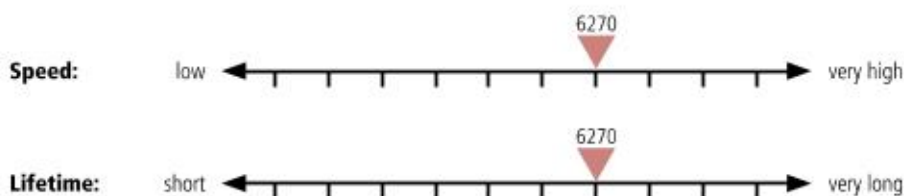
Nonwoven Abrasives	6270 siamet SCM LS
	
Best for	Long lifetime and fast cut
Advantages	<ul style="list-style-type: none"> • Highly flexible • Consistent surface quality • Low clogging • Long lifetime
Product profile	
Grit type	Blue-Fired Aluminium oxide
Grit range	Coarse - Very fine
Backing	Scrim
Coating	–
Materials	
Non-alloy / low-alloy / mild steels	▼
High alloy steel / stainless steel	▼
Non-ferrous metals	▼
Other metals	▼
Application	
Heavy	▽
Standard	▼
Light	▽

▼ Main application

▽ Secondary application

Further products available on www.sia-abrasives.com

The right product for your application





6270 siamet SCM LS

Hand Sanding

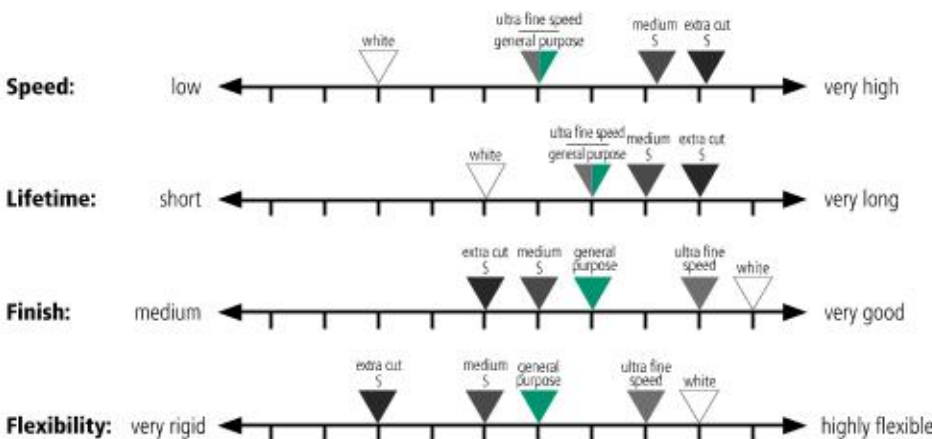
Applications

- Surface contaminant removal
- Finishing and re-graining metal surfaces
- Weld cleaning
- Cleaning glass and ceramics (white)
- For use on metals, paints, composites, ceramics, glass and more

6120 siafleece	extra cut S	medium S	ultra fine speed	general purpose	white
Best for	Fastest finish	Bright surface finish on stainless steel	Super fine finishing	All round use	Cleaning and polishing
Advantages	<ul style="list-style-type: none"> • Stiff product with high aggression • Quick cut and long life • Gives a satin finish on stainless steel 	<ul style="list-style-type: none"> • Fast blending • Gives a bright surface finish on stainless steel • Great for cleaning mild steel 	<ul style="list-style-type: none"> • High durability • Flexible and conformable • Ideal for scuffing of paint and lacquer 	<ul style="list-style-type: none"> • Extra surface grain for a clean cutting action • Ideal all round product for multiple applications 	<ul style="list-style-type: none"> • No abrasive grain so ideal for gentle cleaning of glass, ceramics, stainless steel
Product profile					
Grit type	Silicon carbide	Silicon carbide	Silicon carbide	Aluminium oxide	None
Grit size	80	120	600	320	–
Grit equivalent finish	220 – 280	320 – 360	1000 – 1200	600 – 800	Cleaning
Backing	Nonwoven	Nonwoven	Nonwoven	Nonwoven	Nonwoven
Materials					
Non-alloy / low-alloy / mild steels	▼	▼	▽	▼	▼
High alloy steel / stainless steel	▼	▼	▼	▽	▼
Non-ferrous metals	▽	▽	▽	▽	▼
Other metals	▽	▽	▽	▽	▼
Application					
Heavy	▼	▽			
Standard	▽	▼	▽	▽	▽
Light		▽	▼	▼	▼
Dimensions					
Width x Length	Hand pads only.	Various hand pads and rolls.  			

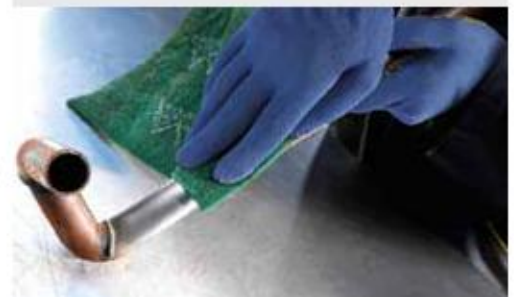
- ▼ Main application
- ▽ Secondary application

The right product for your application







Expert tip: Finishing

Fleece products are ideal for removing small scratches or discolouration from metal surfaces while still maintaining the original grained finish.



Accessories

	Turbo Pad II Backing pad for fibre discs	Turbo Pad I Backing pad for fibre discs	Standard Pad Backing pad for fibre discs
			
Hardness	Extra hard	Hard	Medium/hard
Flexibility	●	● ●	● ● ●
Features	145 - 240 grooves*	24 - 36 ribs* + air holes	n/a
Recommended for grits	# 16, 24, 36, 40, 50 # 36+, 60+	# 36, 40, 50, 60 # 60+, 80+	# 60, 80, 100, 120, 150 # 80+, 120+
Sizes	115 – 180 mm	115 – 180 mm	100 – 180 mm
Application	<ul style="list-style-type: none"> • Heavy duty stock removal • Large weld removal 	<ul style="list-style-type: none"> • Stock removal and general grinding • Medium weld removal and blending 	<ul style="list-style-type: none"> • General grinding and finishing • Light weld removal, blending and surface finishing
Advantages	<ul style="list-style-type: none"> • Most aggressive grinding due to a heavy duty and ribbed design • Multi-groove construction maximises contact pressure between the disc and the work piece • Angled surface provides a more ergonomic grinding position • Long lifetime due to special thermostable plastic 	<ul style="list-style-type: none"> • Air flow holes help to improve cooling • Ribs help increase contact pressure and aid airflow between the disc and the backing pad • Long lifetime due to special thermostable plastic 	<ul style="list-style-type: none"> • Semi-flexibility edge for precision finishing • Long lifetime due to special thermostable plastic

*depending on disc diameter

*depending on disc diameter

siafix Backing Pads and Accessories



Product details

- Available with both R type and S type fittings
- Sizes from 20 – 75mm, with hardness density from soft to hard
- Hard density pad includes a grooved construction to increase contact pressure making the abrasive discs work harder and improve stock removal rates
- All pads have a standard M6 thread and come with a 6 mm (¼") spindle adaptor
- An M14 adaptor is also available separately for use with a standard angle grinder

Spiralband Holders



Product details

- Expanding rubber drums with integrated spindle
- High quality rubber holders are designed to offer the best possible grip and maximise output from each spiralband used
- Includes all the necessary sizes to support the entire sia-spiralband range

Intermediate pad



Product details

- For use with sianet to improve the grip of the disc to micro hook backing pads
- Extend the life of backing pads by using the interface pad – especially beneficial for application which involve edge work
- Available in multiple hole patterns or without holes

SCM Backing Pads



Product details

- Designed to work in unison with our SCM disc range to give the perfect surface finish
- Available with or without centre pin for use with scrim backed SCM discs
- The centre pin maintains perfect disc positioning reducing vibration risk
- Without centre pin allows for flatter sanding applications
- Quick and simple disc changes are easily achieved due to the hook fastening system

siafast Backing Pads



Product details

- Available in multiple densities for all suitable applications using Dual Action sanders
- The range includes pads with or without extraction holes
- Available in sizes 125 mm – 150 mm
- The siafast pad range also includes a solid density pad with an M14 thread for use on Angle Grinders, available in sizes 115 mm – 180 mm; Perfect for use with 1815 siafast discs for light stock removal

Product search
Metal applications

Materials				Conversion forms						Application steps										
Non-alloy / low-alloy steels	High alloy steels	Non-ferrous metals	Other metals	Rolls	Strips	Discs	Flap discs	Flap wheel	Belts	Cutting	Grinding / Weld Removal	Deburring	Removal of rust and paint	Weld preparation	Sanding down	Removing discoloration	Surface treatment	Blending	Structuring	Finish

1815 siatop	▼	▼	▼	▼	▼	▼	▼				▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
1950 siaspeed	▼		▼	▼	▼	▼							▼			▼	▼	▼	▼	▼	
2511 siabite		▼	▼	▼	▼	▼			▼		▼	▼		▼	▼	▼	▼	▼	▼	▼	
2546 siabite jj	▼	▼	▼	▼	▼	▼			▼			▼			▼	▼	▼	▼	▼	▼	
2707 siawat x		▼	▼	▼	▼	▼			▼			▼					▼	▼	▼	▼	
2800 siaron	▼	▼	▼	▼	▼	▼			▼		▼	▼			▼	▼	▼	▼	▼	▼	
2803 siaron x		▼	▼	▼	▼	▼			▼		▼	▼		▼	▼	▼	▼	▼	▼	▼	
2820 siamet	▼		▼	▼	▼	▼			▼		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
2824 siaflap	▼			▼	▼	▼	▼		▼		▼	▼		▼	▼	▼	▼	▼	▼	▼	
2915 siarol	▼	▼	▼	▼	▼	▼						▼	▼			▼	▼	▼	▼	▼	
2923 sialoX	▼		▼	▼				▼	▼			▼	▼	▼	▼	▼	▼	▼	▼	▼	
2925 sialoX	▼		▼	▼	▼	▼			▼		▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
2946 siatur jj	▼		▼	▼	▼	▼			▼			▼				▼	▼	▼	▼	▼	▼
2948 siatur jj		▼	▼	▼	▼				▼			▼				▼	▼	▼	▼	▼	▼
4560 siabite	▼	▼	▼	▼		▼					▼	▼		▼	▼	▼	▼	▼	▼	▼	
4570 siabite X	▼	▼	▼	▼		▼					▼	▼		▼	▼	▼	▼	▼	▼	▼	
4815 siacut	▼	▼	▼	▼		▼					▼	▼		▼	▼	▼	▼	▼	▼	▼	
4819 siaron 8	▼		▼	▼		▼					▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
4961 sialoX	▼		▼	▼		▼					▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	
6120 siafleece	▼	▼	▼	▼	▼	▼	▼		▼				▼			▼	▼	▼	▼	▼	▼
6130 siafleece hd	▼	▼	▼	▼	▼	▼		▼								▼	▼	▼	▼	▼	▼
6140 siafleece sd	▼	▼	▼	▼	▼	▼		▼				▼	▼			▼	▼	▼	▼	▼	▼
6270 siamet SCM LS	▼	▼	▼	▼	▼	▼			▼			▼	▼			▼	▼	▼	▼	▼	▼
6300 siastrip	▼				▼	▼						▼									
6924 siamet SCM HD	▼	▼	▼	▼	▼	▼						▼	▼		▼	▼	▼	▼	▼	▼	▼
7500 sianet CR			▼	▼	▼	▼			▼								▼	▼	▼	▼	
8913 siacut	▼	▼				▼					▼										
8933 siagrind	▼					▼						▼		▼							

▼ Main application
 ▽ Secondary application

Application	Backing
Portable machine sanding	Fibre
Manual sanding	Cloth flexible
Stationary belt grinders	Cloth rigid
Stationary machines	Paper heavy
	Fleece
	Resin
	Dry application
	Wet sanding



								Available in grit ranges:	Page:
▼	▼	▼	▼	▼	▼	▼	▼	Discs 24-150, Belts 40 - 400	25
▼	▼	▼	▼	▼	▼	▼	▼	40 - 600	25
▼	▼	▼	▼	▼	▼	▼	▼	36 - 120	26, 28, 31
▼	▼	▼	▼	▼	▼	▼	▼	60 - 400. Discs 60, 80, 120, 180, 240.	25, 32
▼	▼	▼	▼	▼	▼	▼	▼	60 - 180	26
▼	▼	▼	▼	▼	▼	▼	▼	24 - 400	see website
▼	▼	▼	▼	▼	▼	▼	▼	36 - 180	26, 31
▼	▼	▼	▼	▼	▼	▼	▼	36 - 400	26, 28, 31
▼	▼	▼	▼	▼	▼	▼	▼	40, 60, 80, 120	21
▼	▼	▼	▼	▼	▼	▼	▼	40 - 400	35
▼	▼	▼	▼	▼	▼	▼	▼	40 - 240	28, 29, 30
▼	▼	▼	▼	▼	▼	▼	▼	24 - 400	26, 31
▼	▼	▼	▼	▼	▼	▼	▼	60 - 600	32
▼	▼	▼	▼	▼	▼	▼	▼	80 - 120, 180, 240 - 400, 600	32
▼	▼	▼	▼	▼	▼	▼	▼	36, 50 - 120	22
▼	▼	▼	▼	▼	▼	▼	▼	36+, 60+, 80+ 120	22
▼	▼	▼	▼	▼	▼	▼	▼	24, 36, 50 - 150	22
▼	▼	▼	▼	▼	▼	▼	▼	24 - 120	22
▼	▼	▼	▼	▼	▼	▼	▼	16 - 120	22
▼	▼	▼	▼	▼	▼	▼	▼	extra cut – ultra fine	25, 29, 34, 35
▼	▼	▼	▼	▼	▼	▼	▼	coarse, medium, fine, very fine	30
▼	▼	▼	▼	▼	▼	▼	▼	coarse, medium, fine, very fine	27
▼	▼	▼	▼	▼	▼	▼	▼	extra coarse, coarse, medium, very fine	23, 27, 33
▼	▼	▼	▼	▼	▼	▼	▼	extra coarse	24, 27
▼	▼	▼	▼	▼	▼	▼	▼	extra coarse, coarse, medium	23, 27
▼	▼	▼	▼	▼	▼	▼	▼	40 - 400	25
▼	▼	▼	▼	▼	▼	▼	▼	24 - 60, T and S	20
▼	▼	▼	▼	▼	▼	▼	▼	24/30, S	20

Further products available on www.sia-abrasives.com



Your Key to a Perfect Surface
www.sia-abrasives.com

