



siafix

The quick change discs from sia Abrasives





siafix quick change system

siafix products from sia Abrasives offer a practical quick change system for a wide variety of sanding applications on high-alloy metal through to composites, from material removal through to surface finishing – ideal for use in hard-to-reach areas.

Advantages

- Quick and easy changing of the abrasive
- Suitable for a wide variety of applications
- Large product range

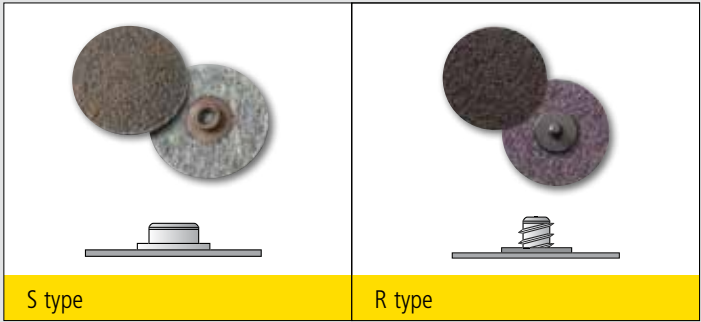
Applications

- Deburring
- Removing paint
- Removing discolouration
- Surface treatment
- Blending

► **siafix fastening systems**

siafix Button Mounted Pins

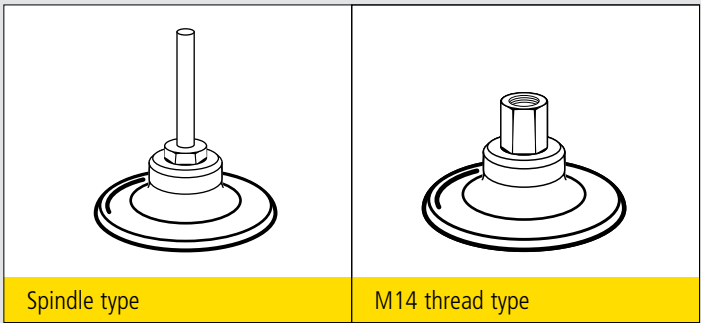
Discs with the siafix fastening system have a small thread on the back and are called Button Mounted. There are two different versions of this: S type and R type.




► **siafix holders**

Holder with spindle and thread

The siafix pads can be fastened to mini angle grinders using a spindle or to a normal angle grinder using the M14 conversion adapter.





	Grit range	Diameter	Material				Application		
			Non-ferrous metals	Unalloyed steel	High-alloy and other hard to grind metals	Glass, stone, composite, titanium	Light-duty application	Medium-duty application	Heavy-duty application
Coated abrasives									
2511 siabite	36–120	20–75 mm		▽	▼			▽	▼
2803 siaron	36–120	25–75 mm		▽	▼			▽	▼
2820 siamet	36–320	20–75 mm	▼	▼			▼	▼	▽
2925 sialoX	24–320	20–75 mm	▼	▼			▼	▼	▽
2707 siawat	60–180	20–75 mm			▼	▼		▼	
2824 siaflap	40–80	50 mm	▽	▼	▽		▼	▼	
Nonwoven abrasives									
6924 siamet hd	extra coarse – medium	20–75 mm		▼	▼		▽	▼	▼
6250 sia scm	extra coarse – superfine	20–75 mm	▼	▼	▽		▼	▼	
6140 siafleece sd	coarse – very fine	20–75 mm	▼	▼	▼		▼		
6300 siastrip	extra coarse	50–75 mm	▼	▼	▼		▼		

Other dimensions and grit sizes available on request.

Minimum order quantities may apply. Please contact your local sales representative.

▼ Main application ▽ Secondary application



Best Practice: 2-step solution – the system solution

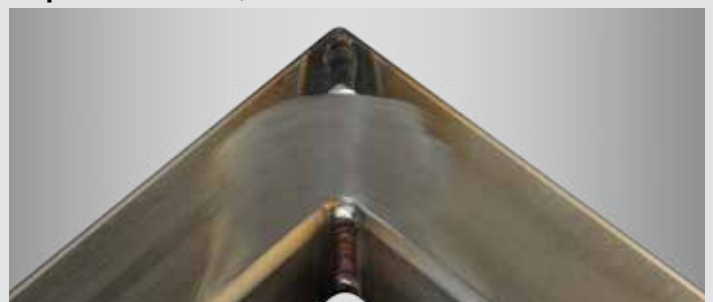
The system solution from coarse sanding through to finishing. Using a combination of coated abrasives and SCM products provides a high removal rate at first and an optimum surface finish at the end.

Practical example on stainless steel bracket with TIG weld seam

Step 1: 2511 siabite, grit of 60



Step 2: 6924 siamet hd, coarse



2511 siabite – The performance specialist for siafix discs



Product profile

Grit type:	Ceramic aluminium oxide
Grit range:	36 – 120
Backing:	y-wt cloth
Coating:	Closed
Bonding:	Resin over resin
Coating:	Cooling additive



2511 siabite provides maximum efficiency due to the self-sharpening effect of its ceramic grit on high-alloy steel and hard to grind metals.

Advantages

- Less machine interruptions thanks to long lifetime
- Minimal effort required thanks to highly aggressive abrasive grit
- Heat-reduced cutting thanks to active additive with cooling effect
- More efficiency thanks to the highest performance

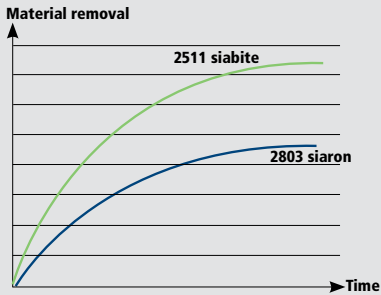
Applications

- Deburring
- Blending
- Removing discolouration
- Surface treatment
- Structuring and final sanding

Materials

High-alloy steel, other metals with hard to grind surfaces

Performance comparison on stainless steel

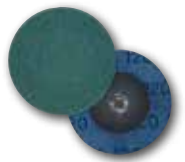


2803 siaron – The top performer for industrial needs



Product profile

Grit type:	Zirconia alumina
Grit range:	36 – 80
Backing:	x-wt cloth
Coating:	Closed
Bonding:	Resin over resin
Coating:	Cooling additive



The 2803 siaron special series is designed for high-alloy steels and other hard to grind metals. It comes into its own in applications such as the industrial surface treatment of weld seams and transitions as well as the removal of mill scale – thanks to a combination of high stock removal rates, low surface pressure and extremely long life.

Advantages

- Active additives with a cooling effect greatly reduce discolouration
- Excellent performance and lifetime
- High removal rate with low pressure

Applications

- Removing discolouration
- Surface treatment
- Deburring
- Blending

Materials

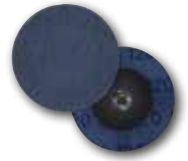
High-alloy steel, other metals with hard to grind surfaces

2820 siamet – The special abrasive for unalloyed steel and non-ferrous metals



Product profile

Grit type:	Zirconia alumina
Grit range:	36 – 400
Backing:	y-wt cloth
Coating:	Closed
Bonding:	Resin over resin
Coating:	Cooling additive



As a specialist product with high stock removal rates as well as excellent edge stability and tear resistance, 2820 siamet is suitable for a wide variety of jobs ranging from removal of rust or paint to preparation for welding – whether on unalloyed steels or non-ferrous metals.

Advantages

- High edge stability, high tear resistance
- High performance for all metals
- Aggressive cut

Applications

- Surface treatment
- Deburring
- Blending

Materials

Unalloyed / low-alloy steel, non-ferrous metals

2925 sialoX – The cost-effective aluminium oxide universal series



Product profile

Grit type:	Aluminium oxide
Grit range:	24 – 400
Backing:	x-wt cloth
Coating:	Closed
Bonding:	Resin over resin
Coating:	Cooling additive



As a cost-effective all-round abrasive with a robust cloth backing, 2925 sialoX offers high edge stability, excellent tear resistance and long life, and delivers excellent results in a variety of applications including final sanding of steels and non-ferrous metals.

Advantages

- High edge stability, high tear resistance
- For general use
- Long lifetime thanks to strong backing material

Applications

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

Materials

Unalloyed / low-alloy steel, non-ferrous metals

2707 siawat – The specialist for hard to grind metals



Product profile

Grit type:	Silicon carbide
Grit range:	60 – 180
Backing:	x-wt cloth
Coating:	Closed
Bonding:	Resin over resin



In addition to working on high-alloy and other hard to grind metals, 2707 siawat is also very suitable for stone, glass and plastic – covering different application steps including structuring.

Advantages

- Versatile
- Ideal for glass and plastics

Materials

High-alloy steel, other metals with hard to grind surfaces, glass, plastic, enamel and ceramic, titanium

Applications

- Surface treatment
- Deburring
- Blending
- Structuring

2824 siaflap – For market-leading performance in steel applications



Product profile

Grit type:	Zirconia alumina
Grit range:	40 – 80
Backing:	y-wt cloth
Coating:	Closed
Bonding:	Resin over resin
Coating:	Cooling additive



Designed for general treatment of unalloyed or low-alloy steel, 2824 siaflap with zirconia alumina and a robust cloth backing provides a high removal rate and long lifetime. Another advantage is the consistent surface quality until the abrasive has been completely used up.

Advantages

- Aggressive cut
- High performance for all metals

Materials

Unalloyed / low-alloy steel, non-ferrous metals

Applications

- Deburring
- Removing rust
- Removing discolouration
- Surface treatment
- Blending

6924 siamet hd – High-performance discs for surface finishing of steels



Product profile

Grit type:	Aluminium oxide
Grade:	Extra coarse – medium
Backing:	Nonwoven
Coating:	Mechanical
Bonding:	Resin over resin



The high-performance discs in the 6924 siamet hd series offer an exceptional removal rate on hard materials and also impress with their exceptionally long lifetime. An excellent, even finish is yet another advantage.

Advantages

- Major time-saving thanks to highest aggressiveness and highest stock removal rates
- Excellent performance on hard materials
- More durable so more resistant on edges
- Much less smearing tendency than existing products; especially at the edge of the disc when working at tight angles
- Excellent and consistent finish over a long period of time

Applications

- Blending
- Light deburring
- Removing polishing scratches
- Removing discolouration
- Removal of paint and rust

Materials

Unalloyed / low-alloy steel, high-alloy steel

6250 sia scm – The flexible and powerful solution for an optimal surface finish



Product profile

Grit type:	Aluminium oxide
Grade:	Extra coarse – very fine
Backing:	Nonwoven
Coating:	Mechanical
Bonding:	Resin over resin



6250 sia scm nonwoven abrasives are versatile to use and impress when working on steel due to their long lifetime, high removal rate and perfectly conditioned surfaces.

Advantages

- Long lifetime
- Excellent surface quality
- Suitable for general use in dry and wet sanding applications

Applications

- Deburring
- Removing rust and paint
- Removing discolouration
- Surface treatment
- Blending
- Structuring / finishing

Materials

Unalloyed / low-alloy steel, high-alloy steel, non-ferrous metals

6140 siafleece sd – Delivers constant performance for an even finish



Product profile

Grit type:	Aluminium oxide
Grit range:	Coarse – very fine
Backing:	Nonwoven
Coating:	Mechanical
Bonding:	Resin over resin



6140 siafleece sd is suitable for applications such as removing rust, paint and discolourations and also for structuring / finishing. It impresses not only with a consistent sanding pattern, but also with long lifetime and low clogging.

Advantages

- Consistent sanding pattern and long lifetime thanks to even grit distribution
- High tear resistance
- Low clogging

Materials

Unalloyed / low-alloy steel, high-alloy steel, non-ferrous metal, other metals with hard to grind surfaces

Applications

- Removing rust and paint
- Removing discolouration
- Surface treatment
- Blending
- Structuring / finishing

6300 siastrip – The specialist abrasive for the removal of paint and rust



Product profile

Grit type:	Silicon carbide
Grade:	Extra coarse
Backing:	Nonwoven
Coating:	Mechanical
Bonding:	Resin over resin



6300 siastrip for unalloyed and low-alloy steel leaves nothing to be desired in terms of removal rates and product life, and also has the advantage of low clogging.

Advantages

- Low clogging
- Excellent performance and lifetime

Materials

Unalloyed / low-alloy steel

Applications

- Removing rust and paint

Backing pads for siafix discs and rotary sanders

The siafix backing pad range includes all common sizes and hardnesses. We therefore offer the right backing pad for every application.

R type



Type	Hardness	Diameter
Pad R	hard	50 mm
Pad R*		75 mm
Pad R	medium	20 mm
Pad R		25 mm
Pad R		38 mm
Pad R		50 mm
Pad R		75 mm
Pad R	soft	50 mm
Pad R*		75 mm

S type



Type	Hardness	Diameter
Pad S*	hard	50 mm
Pad S*		75 mm
Pad S	medium	20 mm
Pad S		25 mm
Pad S		38 mm
Pad S		50 mm
Pad S		75 mm
Pad S*	soft	50 mm
Pad S*		75 mm

* Minimum order quantities may apply.
Please contact your local sales representative.

Backing pad adapter for siafix discs and rotary sanders



M14 adapter

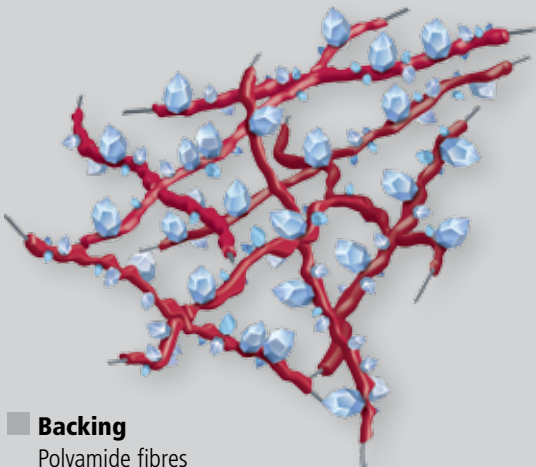
- Fits conventional angle grinders
- Suitable for R type and S type pad

► **Nonwoven abrasives**

Nonwoven abrasives have the flexibility and conformability needed to produce an even surface finish on any workpiece. Nonwoven abrasives are therefore especially suitable for applications with low cutting speed and low contact pressure.



Structure of nonwoven abrasives

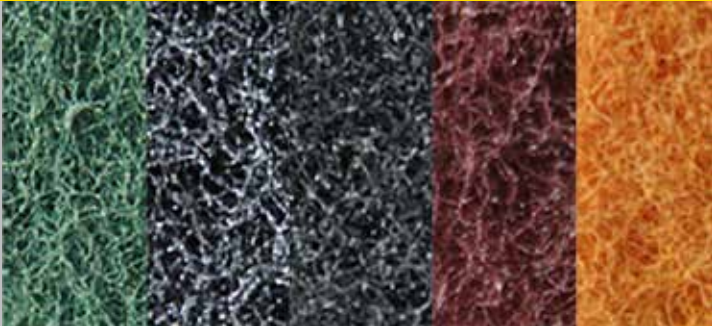


- Backing**
Polyamide fibres
- Abrasive grit**
Brown aluminium oxide, white aluminium oxide, silicon carbide and aluminosilicate
- Binder resin**
Phenol resin, polyurethane resin, acrylate




Nonwoven	SCM
Nonwoven products are manufactured using water-based binder resins in a single pass in the machine.	SCM products are always manufactured in a 2-stage process using binder resins. SCM abrasives are backed with our siafast technology and used in combination with a sanding pad.

Grades



Aside from the grit, the amount of binder resin also determines the hardness of the product and thus its grade. Grades are declared in an ordinal scale and as a colour, always from coarse to fine:

coarse	extra coarse
	coarse
	extra cut
	general purpose
	medium
	fine
	very fine
	ultra fine
	micro fine
	cleaning
fine	

▶ siafast range

The back of the abrasive has loops that can be easily fastened to the backing pad or hand sanding tool with hooks.



Optimum coordination between the loop length and the hook enables precisely the right strength to be ensured for all applications and customer needs.

Advantages

- Cool cut
- Less clogging thanks to special ventilation effect
- Increased safety during the finishing of surfaces and contours due to the cushioning spring effect between the hook-and-loop surfaces
- Little dust, low moisture and minimal temperature fluctuation



Highest demands



2546 siabite

A high-performance abrasive specially designed for high-alloy steel

Specially designed for high-alloy steel and other hard to grind metals, 2546 siabite consistently delivers maximum performance in applications from material removal to final sanding – thanks to features such as its high adaptability to contours, curves and profiles.

Medium demands



1815 siatop

For fast and cost-effective surface treatment of steel and non-ferrous metals

1815 siatop impresses with its high removal rate, long lifetime and very good finish in a wide range of disc applications.

General demands



1950 siaspeed

For optimum performance on non-ferrous metals and steel

1950 siaspeed is ideal for random orbital sanding, providing a long lifetime and good finish from coarse through to fine sanding.



Your Key to a Perfect Surface

www.sia-abrasives.com

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