



Aerospace

Abrasives solutions for the aerospace industry

**Prime
manufacturer
of aerospace
abrasives**





OEM

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MRO

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sia Abrasives



Global partner

Developed and manufactured using Swiss technology and present in over 80 countries: sia Abrasives markets complete abrasive systems for all kinds of surfaces with its 1,300 employees worldwide.

The world's most modern abrasives plant

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

Production expertise

This leader in technology 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 innovation, we know the steps involved in our customers' processes and offer the right sanding solution for any material.

OEM



Tier Suppliers

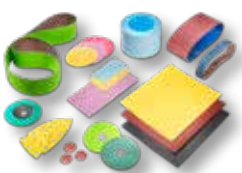


MRO



Types of abrasives

Over 60,000 abrasive products in a variety of abrasive formats, sizes and specifications for all materials, applications and requirements.



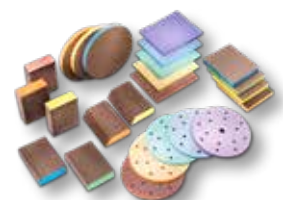
Coated abrasives

- 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

OEM





Best practice Activation of hard primers

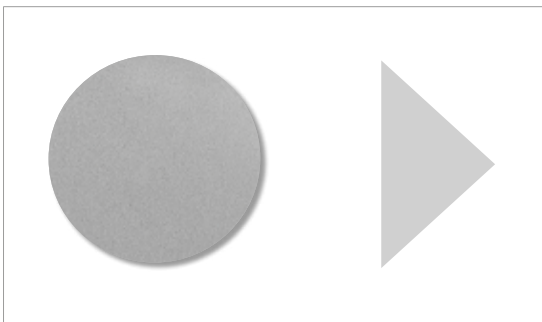


Quick & stable process

Scuffing and activating hard surfaces, such as glossy primers, requires performing abrasives. sia Abrasives recommends 7241 siacarbon.

It features a patented diamond grain that provides an extraordinarily efficient sanding process.

Conventional abrasive on paper backing



- Performance: →
- Speed: →
- Product lifetime: →

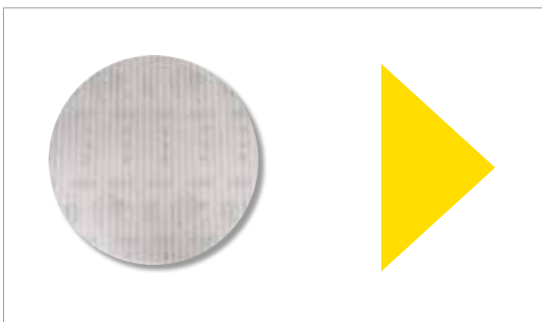
Consumption:
Duration:



► **50% less product lifetime***

* In comparison to 7500 sianet CER

7500 sianet CER with ceramic grit



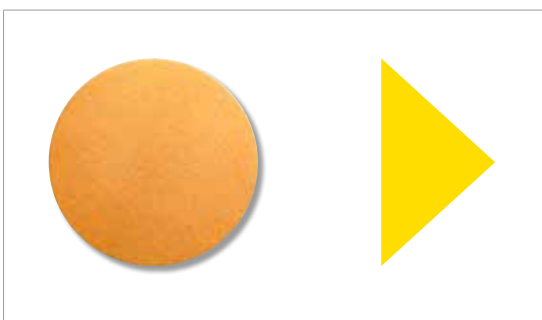
- Performance: ↗
- Speed: ↗
- Product lifetime: ↗

Consumption:
Duration:



► **Improved process
compared to standard paper discs**

7241 siacarbon with diamond grit



- Performance: ↑
- Speed: ↑
- Product lifetime: ↑

Consumption:
Duration:



► **3 – 5 x more speed &
extraordinary lifetime***

* In comparison to standard abrasives

Benchmark test conditions:

Substrate: Glossy primer, abrasives: Standard paper disc, sianet CER 7500, 7241 siacarbon, Ø 150 mm, no holes, grit 180, tool: Random orbit sander

Lacquering preparation on primer

Primer sanding, removing dust inclusions or orange peel effect with a random orbit sander



7500 sianet CER

Grit range:
120 – 320



Page 38

Powerful net-backed abrasive with the ceramic grit

1950 siaspeed

Grit range:
120 – 320



Page 35

A versatile all-round product with very high abrasive performance and good lifetime

Reactivating primer with a random orbit sander



7500 sianet CER

Grit range:
240 – 320



Page 38

Powerful net-backed abrasive with the best dust extraction rates

1950 siaspeed

Grit range:
240 – 320



Page 35

A versatile all-round product with very high abrasive performance and good lifetime

6120 siafleece

Grit range:
Very fine A,
fine A



Page 36

Nonwoven abrasive which is highly flexible and adaptable to contours for manual and portable machine sanding

Reactivating very hard surfaces and primer



7241 siacarbon

Grit range:
120 – 320



Page 37

Highly efficient diamond abrasive for outstanding reduction of process time

▶ Preparing for logo applications

Keying with a random orbit sander



7500 sianet CER
Grit range:
240 – 320



Page 38

Powerful net-backed abrasive with ceramic grit

1950 siaspeed
Grit range:
120 – 320



Page 35

A versatile all-round product with very high abrasive performance and good lifetime

6120 sialfleece
Grit range:
Very fine /
ultrafine



Page 36

Nonwoven abrasive which is highly flexible and adaptable to contours for manual and portable machine sanding

Keying with manual sanding



7900 sianet
Grit range:
240 – 400



Page 38

Powerful net-backed abrasive with the best dust extraction rates

1950 siaspeed
Grit range:
240 – 600



Page 35

A versatile all-round product with very high abrasive performance and good lifetime

Keying with manual sanding and nonwoven abrasive



6120 sialfleece
Grit range:
Very fine /
ultrafine



Page 36

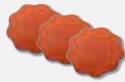
Nonwoven abrasive which is highly flexible and adaptable to contours for manual and portable machine sanding

▶ Finishing – Polishing

Removing dust inclusions with a mini angle grinder or Finiblock



1913 siawat
Grit range:
1500 – 2000



Page 34

Leading wet abrasive which is highly adaptable to contours and shapes

Removing dust inclusions with manual sanding



1913 siawat
Grit range:
1500 – 2000



Page 34

Leading wet abrasive which is highly adaptable to contours and shapes

Removing dust inclusions with a random orbit sander



7940 siaair
Grit range:
2000 – 3000



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Perfect finish in wet and dry applications for polishing preparation

Best results with:
Extra soft type backing pad,
protective pad

Polishing



siachrome polishing system

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Best results with:
siachrome polishing system and
lambskin discs

Tier Suppliers





Best practice Composite paint preparation



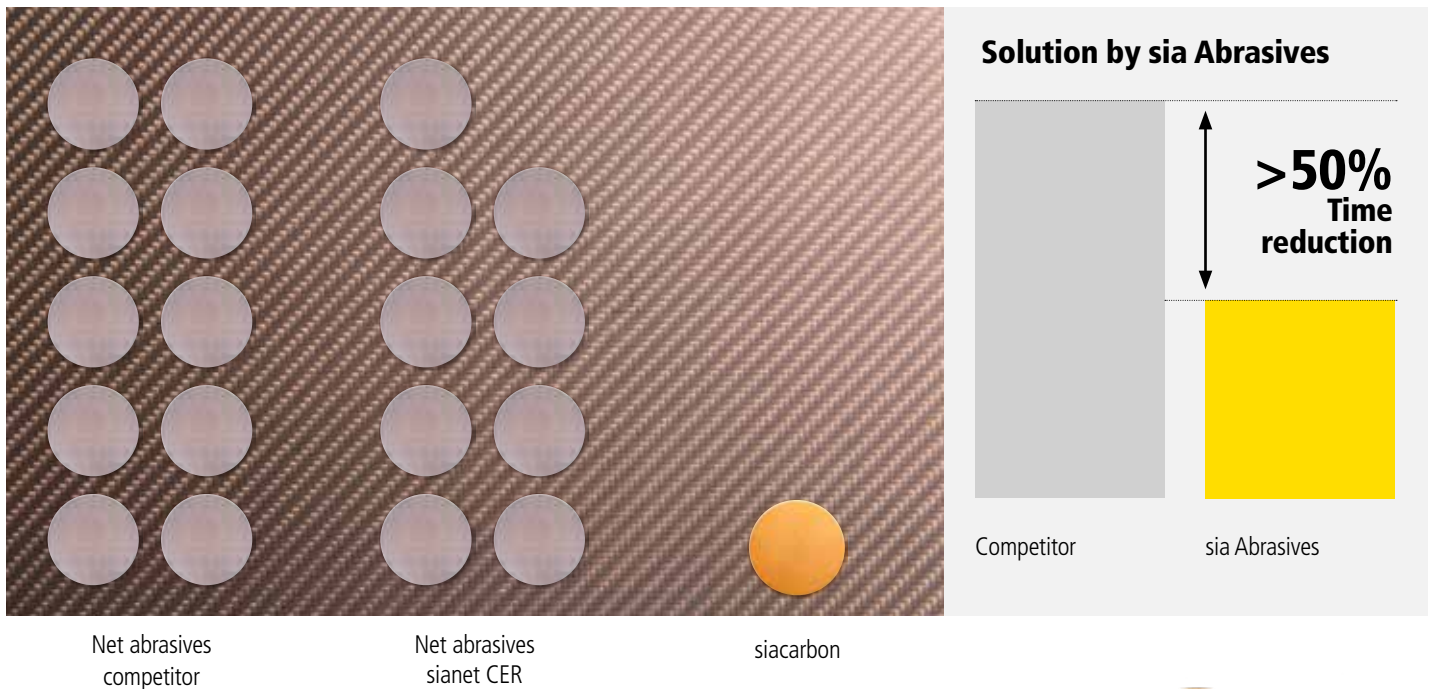
Cleaning and scuffing of raw composite materials

When manufacturing modern composite materials, all surfaces need to be cleaned from mould agents and scuffed for downstream paint processes. In this step of the process often standard abrasive discs with paper or net backing

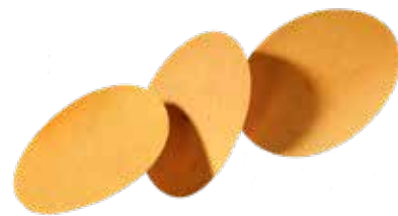
can be found. However this process is a tough job even for performing quality abrasive products. sia Abrasives offers a dedicated, unique solution, that provides the user with tremendous savings as regards cost and time.

siacarbon – Remarkable reduction of process times

Original test result: Abrasive consumption and process time to finish one composite part of ca. 2sqm.



7241 siacarbon is ideal for machine sanding of hard surfaces – independent from the hole system. It delivers unique results when keying scratch-resistant lacquers, composite materials, new parts, factory primers and aluminium with a minimum abrasive consumption. Excellent performance with consistent removal rates thanks to patented diamond technology.



Hint: More efficient activation with finer grits



Due to the special composition of siacarbon abrasives it may be advisable in some cases to be used on grit finer than the abrasive used in the current process. Also, in the present case, fine grit #180 was able to achieve a better activated surface than grit #120, which was used with the previous competitor product

► Composite component manufacture

Remove mould agent and prepare for painting



7241 siacarbon
Grit range:
120 – 320



Page 37

Highly efficient diamond abrasive for outstanding reduction of process times

7500 sianet CER
Grit range:
120 – 320



Page 38

High-performance product with ceramic aluminium oxide and perfect dust extraction

Paint preparation with random orbit sander



1950 siaspeed
Grit range:
120 – 320



Page 35

A versatile all-round product with very high abrasive performance and good lifetime

Best results with:
Hard or soft type backing pad

7900 sianet
Grit range:
120 – 320



Page 38

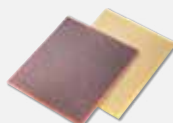
Powerful net-backed abrasive with the best dust extraction rates

Best results with:
Hard or soft type backing pad

Paint preparation with hand sanding



7972 siasponge soft
Grit range:
Medium, fine



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Colour coded foams for easy identification and high grinding performance

Best practice: Cleaning moulds (FEMI)

During the manufacture of composite materials, the moulds have to be cleaned of mould agent and resin stains. In comparison to standard cleaning processes with nonwoven materials, siacarbon can do the

job up to 5 times faster. In real life tests process times were reduced from 15 to 3 man hours.

Product recommendation



7241 siacarbon
Grit range:
180 – 240



Best practice Composite interiors (GRP)



More efficient process by superior product lifetime Applications: Fine surface preparation on interior panels

sia Abrasives is best in class for the composite applications and coatings. High productivity and constant surface quality are specific requirements of the interiors industry. It is the perfect match and offers the right solutions

throughout the entire process chain: Basic and fine surface preparation, finishing and polishing.

Competitor standard paper disc Ø 150 mm, grit 150

**With 1 disc
you get
3 panels**

Quick clogging, short lifetime,
inefficient sanding process

1950 siaspeed Ø 150 mm, grit 150

**With 1 disc
you get
6 panels**

**Advantage
+ 300% Performance**

Less clogging, longer lifetime,
consistent surface pattern

7500 sianet CER Ø 150 mm, grit 150

**With 1 disc
you get
9 panels**

**Advantage
+ 500% Performance, up to
30% process cost savings**

Highly efficient process through
product lifetime and work progress,
consistent surface pattern

Benchmark test under the following conditions:

Substrate: Primer, Abrasive: Conventional paper disc, 1950 siaspeed, 7500 sianet CER, Ø 150 mm, no holes, grit 150, tool: Random orbit sander

Metal-Processes siafix quick change system

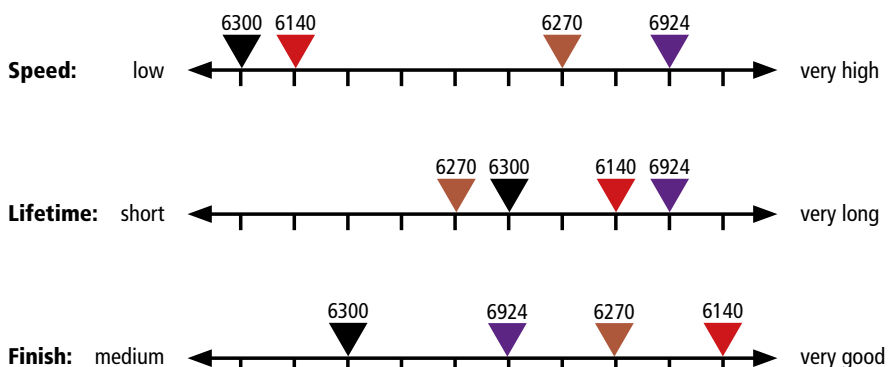


Coated abrasives	2511 siabite	2820 siamet	2925 sialoX	6924 siamet HD	6270 siamet SCM LS
Best for	Fastest stock removal	General grinding and finishing on multiple metals	Fine finishing	Quick cut	Edge work
Advantages	<ul style="list-style-type: none"> • Long lifetime • Aggressive cut • Heat-reduced cutting 	<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"> • Major time-saving • More resistant on edges • Low smearing tendency 	<ul style="list-style-type: none"> • Long lifetime • Excellent surface quality • Suitable for dry and wet sanding
Product profile					
Grit type	Ceramic aluminium oxide	Zirconia alumina	Aluminium oxide	Aluminium oxide	Aluminium oxide
Grit range	36 – 120	36 – 320	24 – 320	extra coarse – medium	coarse – superfine
Backing	y-wt cloth	y-wt cloth	x-wt cloth	Scrim	Scrim
Coating	Cooling top coat	Active additives	Active additives	–	–
Materials					
Non-alloy / low-alloy / mild steels	▽	▼	▼	▼	▼
High-alloy steel / stainless steel	▼	▽	▽	▼	▼
Non-ferrous metals		▼	▼	▽	▽
Other metals	▽			▼	▽
Applications					
Heavy	▼	▽		▼	
Standard	▽	▼	▼	▼	▼
Light		▼	▼	▽	▼
Dimensions					
Diameter	Ø 20 – 75 mm	Ø 20 – 75 mm	Ø 20 – 75 mm	Ø 20 – 75 mm	Ø 20 – 75 mm

Further products available on www.sia-abrasives.com

- ▼ Main applications
- ▽ Secondary applications

The right product for your applications



siafix Fastening system

Type: S/2



Type: R/3



Best Practice
**Removing
 machine
 marks**



**Maximum
 efficiency**

1 Remove machine marks

2511 siabite
 Ceramic disc,
 siafix
 Grit range:
 36 – 120

siafix Backing Pad

2 Finish

6924 siamet HD
 SCM disc,
 siafix
 Grit range:
 Coarse / medium

siafix Backing Pad

**Up to
 50%
 less
 consumption of
 abrasive
 discs**

**Considerably shorter sanding process by perfectly
 aligned abrasive products**



**Up to 20%
 faster grinding process**

In the first step the full ceramic grain provides a quick cut along with a consistent finish. This avoids re-work in the following step.

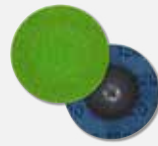
In the second step the high performance SCM disc can reach an improvement in performance of up to 300% against the competition.

▶ Metal component manufacture

Deburring/removing machine marks with mini angle grinder



Titanium, aluminium, Inox:
2511 siabite
Grit range:
36 – 80



Page 35

Aggressive abrasive performance with long lifetime due to self-sharpening effect of the ceramic grit

Steel:
2820 siamet,
siafix
Grit range:
36 – 60



Page 35

All-rounder with high removal rate and very good edge stability and tear resistance

Titanium, aluminium, steel:
6924 siamet HD,
siafix
Grit range:
Extra coarse,
coarse



Page 37

High-performance discs for consistent finishing over a long lifetime

Deburring with a power file



Titanium, aluminium, Inox:
2511 siabite
Grit range:
36 – 60



Page 37

Aggressive abrasive performance with long lifetime due to selfsharpening effect of the ceramic grit

Best practice: High belt stability

If sanding belts tear due to substandard belt joints, it can lead to time-consuming amendments or losses in productivity. Market-leading belt joints from sia Abrasives are made to a high standard of quality and offer high-quality consistency, ensuring a loss-free and efficient production process.

Your advantage:
No damage to components thanks to excellent stability and long life of the belt joints

Product recommendation



2511 siabite
2820 siamet



Deburring with a straight grinder



Steel:
2820 siamet, spiral belt

Grit range: 36 – 150
Titanium: 2511 siabite
Grit range: 36 – 120



Page 35
Spiral belt for sanding applications on inner radius or pipes

Deburring with an angle grinder



Titanium:
4570 fiber disc

Grit range:
36 – 120



Page 36
Fiber discs featuring X-Technology for considerable cooler grinding with a long service life and a consistent cutting performance

Blending with a mini angle grinder



Titanium, Inox:
2511 siabite, siafix

Grit range:
60 – 120



Page 35
Aggressive abrasive performance with long lifetime due to self-sharpening effect of the ceramic grit

Steel:
2820 siamet, siafix

Grit range:
80 – 120



Page 35
All-rounder with high removal rate and very good edge stability and tear resistance

Titanium, steel:
6924 siamet HD, siafix

Grit range:
Medium



Page 37
High-performance discs for consistent finishing over a long lifetime

Finish with mini angle grinder



Steel:
2820 siamet, siafix

Grit range:
120 – 180



Page 35
All-rounder with high removal rate and very good edge stability and tear resistance

Titanium, steel:
6924 siamet HD, siafix

Grit range:
Medium



Page 37
High-performance discs for consistent finishing over a long lifetime

Finishing with a straight grinder



Steel, aluminium
6120 siavlies siamop
Nonwoven & Interleaved

Grit range:
Extra coarse – very fine



Page 36

For finer surface finishing in portable machine sanding

Steel, aluminium
2923 siamop

Grit range:
60 – 150



Page 42

For grinding and blending on metal surfaces

Lacquering preparation with a random orbit sander



2546 siabite

Grit range:
80 – 180



Specially designed for high-alloy steel and other hard to grind metals – high adaptability to contours, curves and profiles

More information on www.sia-abrasives.com

1815 siatop

Grit range:
120 – 180



Page 34

Impresses with its high removal rate, long lifetime and very good finish in a wide range of disc applications

7500 sianet CER

Grit range:
120 – 180



Page 38

Powerful net-backed abrasive with the best dust extraction rates

Best results with:
Hard or soft type backing pad

6120 siafleec
6130 siafleec HD

Grit range:
Very fine



Page 36

Nonwoven abrasive which is highly flexible and adaptable to contours for manual and portable machine sanding

Lacquering preparation with manual sanding



6120 siafleec

Grit range:
Very fine



Page 38

Nonwoven abrasive which is highly flexible and adaptable to contours for manual and portable machine sanding

MRO





Best Practise Reducing downtime

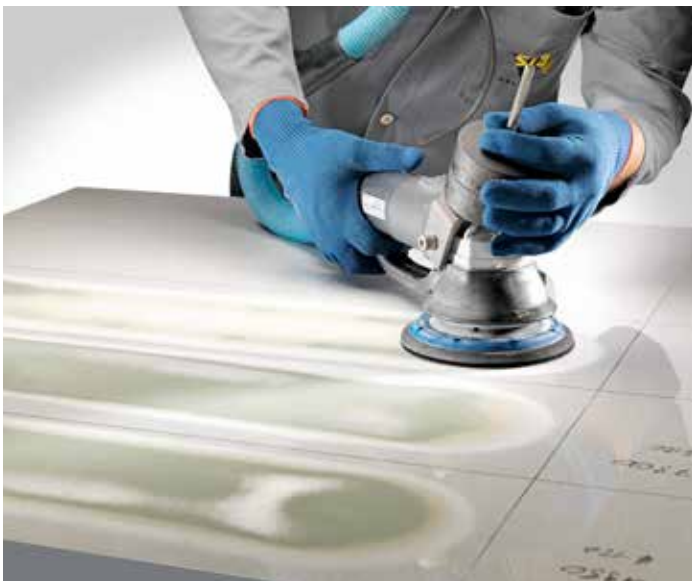


Considerably lower costs thanks to a faster process

As downtime results in enormous cost for airlines, it is important to keep the process time for sanding at a minimum. The cost of abrasive materials only make up a very small part of the total process cost.

Performing abrasives can reduce the main cost: Labour. The test results on exterior paint show how big the difference between abrasives can be.

Benchmark test



Result after sanding for 3 minutes: Considerably more material is removed

	1950 siaspeed
	7500 sianet CER
	Competitor A
	Competitor B
	Competitor C

Performance comparison under the following conditions:
 Abrasive: 150 mm diameter disc, multi-hole, 15-hole and net-backed abrasive, Grit: 120,
 Material: BaseCoat/ClearCoat lacquer system, Machine: Random orbit sander, 150 mm, 5 mm stroke,
 Backing pad: Multi-hole soft, with dust extraction, Contact pressure: 2 kg

Best Practise MRO test procedure



Save 40% time thanks to an efficient working process

Working time



22:16 min

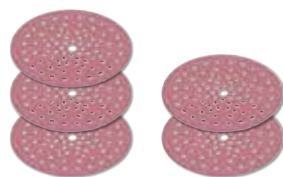
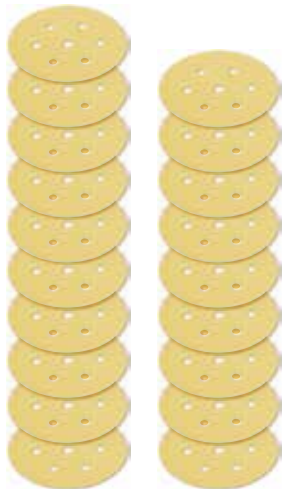


12:40 min



Up to **40%**
faster
working process

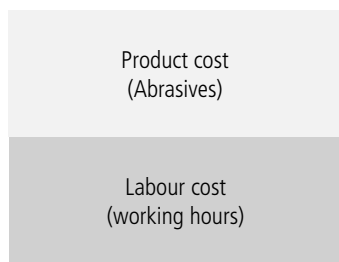
Consumption abrasive discs



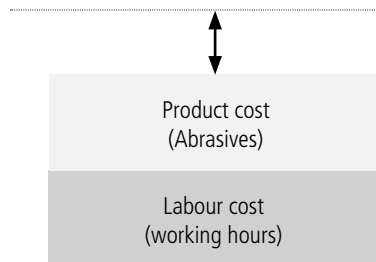
Up to **4x**
longer lifetime

Only 5 discs instead of 19 discs

Sanding process



Conventional Abrasives
5-hole



1950 siaspeed
81-Loch / S Performance



Up to **25%**
less sanding
process cost

Performance comparison under the following conditions:

Abrasive: 150 mm diameter disc, competitor 6-hole – sia multihole, Grit: 180, Object: Airplane turbine,
Material: 1x Primer green, 1x BaseCoat, 1x Color lacquer system, Machine: Eccentric, 150 mm, 8 mm stroke,
Backing pad: Type hard, hook and loop, 54-hole, without direct machine dust extraction

▶ Exterior – Sanding off paint

Paint stripping, removing logos with a random orbit sander



7500 sianet CER
Grit range:
80 – 240



Page 38

Powerful net-backed abrasive with the best dust extraction rates

Best results with:
Hard or soft type backing pad

1950 S Performance
Grit range:
80 – 240



Page 35

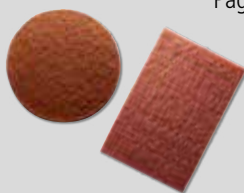
A versatile all-round product with very high abrasive performance and good lifetime

Best results with:
Hard or extra soft type backing pad, intermediate pad

Cleaning after chemical paint stripping



6120 siafleece
6120 siafleece HD
Grit range:
Very fine A



Page 36

Nonwoven abrasive which is highly flexible and adaptable to contours for manual and portable machine sanding

▶ Interior – Cabin conditioning

Keying/sanding off with a random orbit sander



7500 sianet CER
Grit range:
120 – 320



Page 38

Powerful net-backed abrasive with the best dust extraction rates

Best results with:
Hard or soft type backing pad

1950 S Performance
Grit range:
120 – 320



Page 35

A versatile all-round product with very high abrasive performance and good lifetime

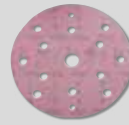
Best results with:
Hard or extra soft type backing pad, intermediate pad

▶ Interior – High-gloss panels

Spot repair, removing orange peel effect with a random orbit sander



1950 siaspeed
Grit range:
800 – 1500



Page 35

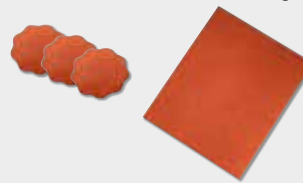
A versatile all-round product with very high abrasive performance and good lifetime. Ultrafine grit range for excellent surface quality.

Best results with: Extra soft type backing pad, intermediate pad

Spot repair with Finiblock or hand sanding block



1913 siawat
Grit range:
2000, 2500



Page 34

Leading wet abrasive which is highly adaptable to contours and shapes.

Best results with:
Finiblock, hand sanding block

Polishing preparation



7940 siaair
Grit range:
1000 – 3000



Page 38

Perfect finish wet sanding for polishing preparation.

Best results with:
Extra soft type backing pad, protective pad

Polishing



siachrome cut,
siachrome finish,
siachrome magic



Page 28, 41

Best results with:
siachrome polishing discs

System solution Polishing acrylic



Fine scratches

1 Cleaning

siachrome Magic



Power cleaner



Microfiber cloth

2 Refining

7940 siaair



Disc
Grit range: 1000
Wet sanding



Random orbit sander
Backing pad soft

3 Finish

7940 siaair



Disc
Grit range: 3000
Wet sanding



Random orbit sander
Backing pad soft

Ordinary scratches

1 Cleaning

siachrome Magic



Power cleaner



Microfiber cloth

2 Sand out scratches

1950 siaspeed



Disc
Grit range: 600



Random orbit sander
Backing pad soft

3 Refining

7940 siaair



Disc
Grit range: 1000
Wet sanding



Random orbit sander
Backing pad soft

Scratch test

It is the user's responsibility to decide whether the process shown is suitable for their specific applications and to follow relevant safety requirements. Downstream quality assuring processes need to be observed.



Deep scratches can be felt with the finger tip,
normal scratches with the finger nail.
Fine scratches can not be felt.

Reliable polishing process

Even modern basic materials are not maintenance-free and require rework now and then. The sia Abrasives polishing process can be a support when reworking acrylic glass. The well synchronized abrasives and grit steps can efficiently remove all fine and medium scratches.

In any case the operator has to consider the specifications of existing repair manuals and to follow safety-related rules for quality assurance. The mandatory minimum thickness of the acrylic base material may not be undercut and needs to be assured before returning the parts to service.

4 Polishing

siachrome cut



Scratch remover



Lamb's wool disc

5 Remove micro scratches

siachrome finish



Polishing fine Finish paste



Polishing disc black

Perfect surface

4 Finish

7940 siaair



Disc
Grit range: 3000
Wet sanding



Random orbit sander
Backing pad soft

5 Polishing

siachrome cut



Scratch remover



Lamb's wool disc

6 Take out micro scratches

siachrome finish



Microfine Finish paste



Polishing disc black

Perfect surface

Scratch resistant surfaces

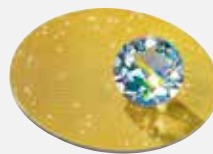
To rework very hard, scratch resistant surfaces we recommend using 7240 siacarat discs with diamond grit instead of siaair 7940.

With up to 40 times more lifetime compared to standard abrasives.

Product recommendation



7240 siacarat



More information on www.sia-abrasives.com



Products





sianet
Net-backed
abrasives





Advantages of sianet net-backed abrasives

Best dust extraction rates

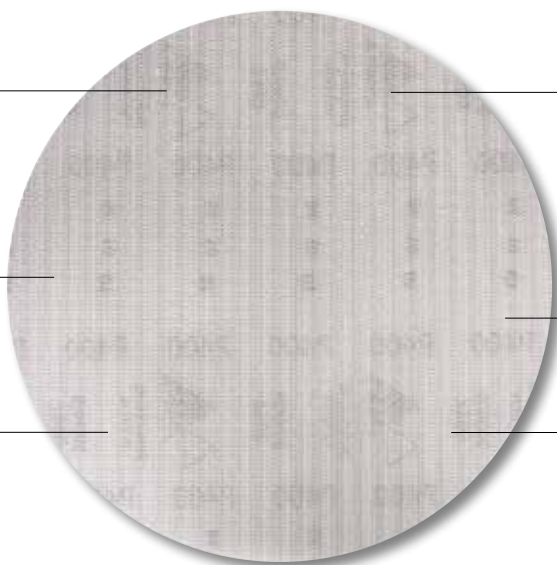
The net backing ensures a virtually dust-free environment, which is advantageous for health protection and work safety.

Very high removal rate

Impressive removal rate with impressive lifetime.

High tear resistance

The sturdy, flexible net backing is very resilient, has stable edges and is tear resistant.



Minimal clogging

Full surface dust extraction and selected abrasive components prevent clogging of the abrasive.

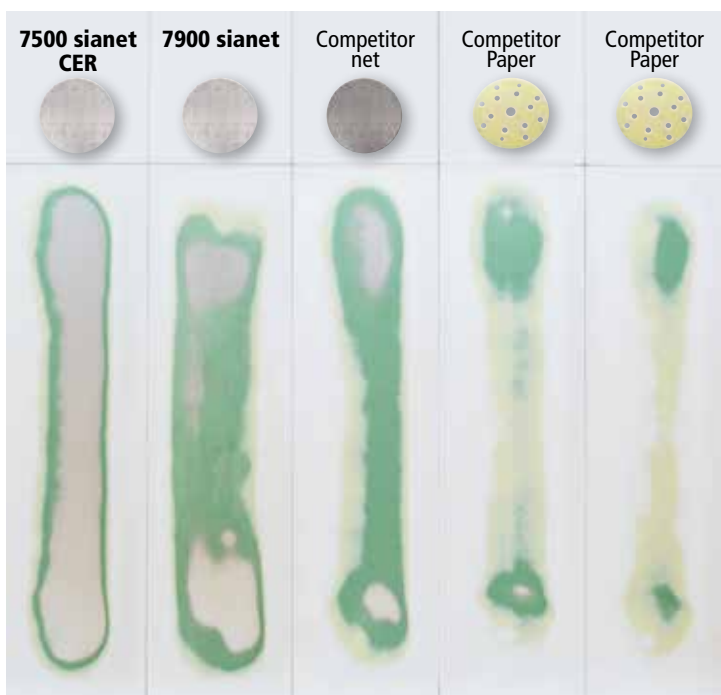
OEM proven technology

No dependence on hole system

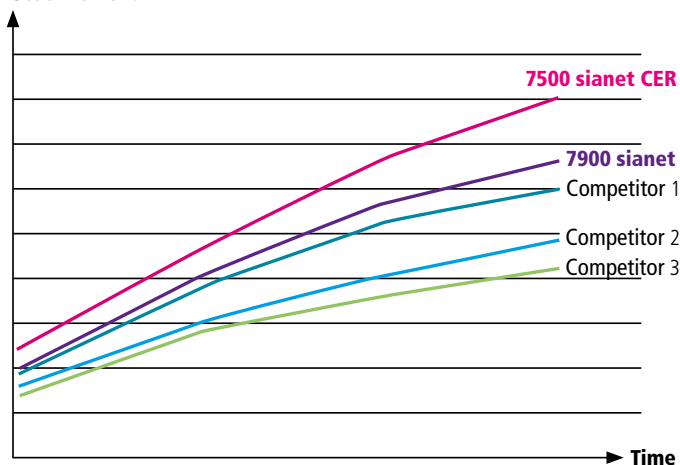
High productivity due to easy positioning of the abrasive on the backing pads or hand sanding tools.

Sanding down exterior paint – Result after 3 minutes

(Representative benchmark test)



Stock removal



The results were identified under the following circumstances:

Abrasive: 7500 sianet CER, 7900 sianet, main competitor net, main competitor 1 & 2 for paper discs

Grit: 120

Substrate: BaseCoat / ClearCoat exterior paint system

Tool: Random orbit sander, 150 mm, 5 mm stroke with dust extraction

1815 siatop – Fast and cost-effective surface treatment of steel and non-ferrous metals



Product profile

Grit type:	Zirconia alumina	
Grit range:	24 – 150	
Backing:	Fibre	24 – 40
	f-wt paper	50 – P150
Coating:	Closed	
Bonding:	Resin over resin	
Coating:	Cooling additive	

Advantages

- Outstanding performance in dry sanding applications
- Fast and safe change of abrasive with siafast hook and loop fastening system
- The low-cost alternative to fibre discs
- Minimal effort required for high stock removal

Applications

- Removal of paint
- Removal of rust
- Weld preparation
- Removal of discolouration
- Sanding down
- Surface treatment
- Deburring

1913 siawat – Wet sanding quality



Product profile

Grit type:	Semi-friable aluminium oxide	P60 – P1200
	Silicon carbide	P1500 – P2500
Grit range:	60 – 2500	
Backing:	d-wt paper	P60 – P600
	c-wt paper	P800 – P2500
Coating:	Closed	
Bonding:	Resin over resin	

Advantages

- Very even sanding pattern
- Highly water resistant
- Highly adaptable to contours and shapes
- High stock removal with good finish
- A longstanding, market-leading wet abrasive
- Can be used wet or dry

Applications

- Flattening bodyfiller, primer fillers and lacquers
- Scuffing old and new lacquers for blending
- Removing paint runs
- Removing orange peel effect and dust inclusions
- Fine sanding paints, lacquers and fillers
- Intermediate sanding
- Keying

1944 siaone – The one with cut



Product profile

Grit type:	Semi-friable aluminium oxide	P40 – P500
Grit range:	40; 60-240; 320; 400-500	
Backing:	c-wt paper	P40 – P120
	b-wt paper	P150 – P500
Coating:	Electrostatic	
Bonding:	Resin over resin	
Coating:	Stearate	P220 – P500

Advantages

- The optimised abrasive grits combined with the siafast cut velours ensure an aggressive initial cut
- Process stability thanks to uniform scratch depths in all grits
- Excellent price/performance ratio

Applications

- Sanding off coatings and impurities
- Sanding out unevenness at the edges of repaired surfaces
- Flattening bodyfiller and primer filler
- Fine sanding primer filler
- Keying old and new lacquers

1950 siaspeed – At full speed to a perfect surface



Product profile

Grit type:	Mixed grit types Semi-friable aluminium oxide/blue-fired	40 – 80 P100 – P600
Grit range:	40 – 1500	
Backing:	Paper	
Coating:	Electrostatic open Electrostatic	P220 – P600 40 – P180
Bonding:	Resin over resin	
Coating:	Stearat	from 80

Advantages

- High-performance abrasive
- High removal rate
- Longest lifetime
- A versatile all-round product
- Less clogging thanks to stearate coating
- Lower abrasive consumption
- Homogeneous sanding finish

Applications

- Keying polyesters and composites
- Sanding out feather edges, flash rust and stone chips
- Shaping bodyfiller and primer fillers
- Keying new components and factory primers
- Sanding down old lacquer
- Scuffing old and new lacquers for blending
- Flattening bodyfiller, primer fillers and lacquers

2511 siabite – The performance specialist



Product profile

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

Advantages

- Less machine interruptions thanks to long lifetime
- Minimal effort required thanks to highly aggressive abrasive grit
- Reduced heat cutting thanks to active additive with cooling effect
- More efficient thanks to maximum performance
- Improved flexibility for power files thanks to special flexing

Applications

- Weld preparation
- Sanding down
- Deburring
- Smoothing and blending of flaws
- Removing discolouration
- Surface treatment
- Structuring and final sanding

2820 siamet – The cost-effective specialist for a wide range of applications



Product profile

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

Advantages

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

Applications

- Removal of paint
- Removal of rust
- Weld preparation
- Removing discolouration
- Sanding down
- Surface treatment
- Deburring
- Smoothing and blending of flaws

4570 siabite X – The fibre disc for the coolest grinding with new and unique XTechnology



Product profile

Grit type:	Ceramic aluminium oxide
Grit range:	36 – 120
Backing:	Fibre
Coating:	Electrostatic
Bonding:	Resin over resin
Coating:	Cooling additive

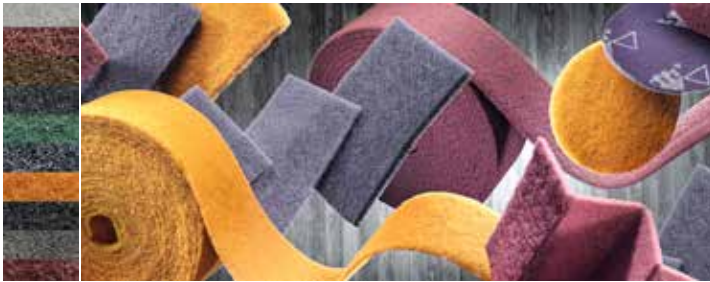
Advantages

- Cool cut
- Uniform cutting performance
- Long lifetime
- Fine surface finish

Applications

- Weld removal
- Removal of scale and mill scale
- Blending flaws
- Reduced discolouration

6120 siafleece – For even surface finishes in manual and portable machine sanding



Product profile

Grit type:	Aluminium oxide Silicon carbide
Grit range:	Coarse – ultrafine S
Backing:	Nonwoven
Coating:	Mechanical
Bonding:	Resin over resin

Advantages

- Highly flexible and adaptable to contours
- For manual or portable machine sanding
- Low clogging
- Suitable for general use in dry and wet sanding applications

Applications

- Removal of rust
- Removing discolouration
- Structuring / finishing

6140 siafleece sd – Delivers constant performance for an even finish



Product profile

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

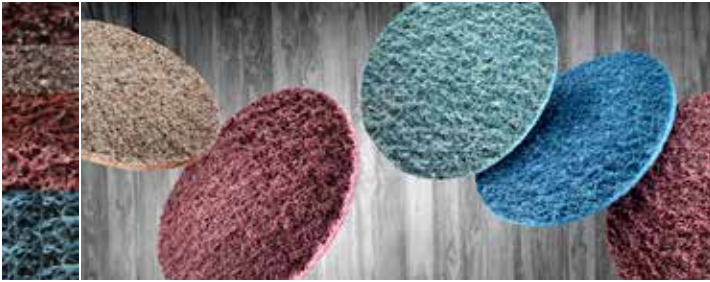
Advantages

- Consistent scratch pattern and long lifetime thanks to even grit distribution and penetration
- High tear resistance
- Low clogging
- Suitable for general use in dry and wet sanding applications

Applications

- Deburring
- Removal of rust and paint
- Reduced discolouration
- Surface treatment
- Smoothing and blending of flaws
- Structuring / finishing

6270 siamet scm LS – The flexible and powerful solution for an optimal surface finish



Product profile

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

Advantages

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

Applications

- Deburring
- Removal of rust and paint
- Removing discolouration
- Surface treatment
- Smoothing and blending of flaws
- Structuring/finishing

6924 siamet HD – High-performance discs for steel surface finish



Product profile

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

Advantages

- Significant time saving thanks to maximum aggressiveness and highest stock removal rates
- Excellent performance on hard materials
- More durable so more resistant on edges
- Considerably more resistant to smearing 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

- Smoothing and blending of flaws
- Sanding down
- Light deburring
- Removing polishing scratches
- Removing discolouration
- Removing paint
- Removing rust

7241 siacarbon – The harder, the more efficient



Product profile

Grit type:	Diamond
Grit range:	80 – 500
Backing:	Cloth
Coating:	Special process
Bonding:	Resin over resin

Advantages

- Excellent performance on hard materials
- Extremely long lifetime thanks to state-of-the-art diamond technology
- Full surface dust extraction
- No dependence on hole system
- Minimal risk of sanding through on edges
- Increased efficiency due to significant time saving
- Consistent removal rate

Applications

- Keying scratch-resistant lacquer systems and composite materials
- Keying new components and factory primers
- Keying aluminium

7500 sianet CER – The powerful net-backed abrasive with ceramic grit



Product profile

Grit type:	Ceramic aluminium oxide
Grit range:	80 – 400
Backing:	Knitted fabric
Coating:	Electrostatic
Bonding:	Resin over resin

Advantages

- Full surface dust extraction
- No dependence on hole system
- High removal rate without clogging
- High tear resistance thanks to sturdy net backing
- High-performance product with ceramic aluminium oxide

Applications

- Sanding down coatings and impurities
- Keying primers
- Fine sanding solid wood, veneers, solid surface materials, priming foil, plaster and plasterboard
- Intermediate sanding of lacquers

7900 sianet – The powerful net-backed abrasive



Product profile

Grit type:	Blue-fired aluminium oxide/white aluminium oxide
Grit range:	80 – 400
Backing:	Knitted fabric
Coating:	Electrostatic
Bonding:	Resin over resin

Advantages

- Full surface dust extraction
- High removal rate without clogging
- Very efficient and productive
- High tear resistance thanks to sturdy net backing
- Ideal for wood that smears or wood containing oils or resins

Applications

- Sanding down coatings and impurities
- Keying paints, lacquers, bodyfillers, primer fillers and plastics
- Keying primers
- Fine sanding surfaces and edges
- Intermediate sanding of lacquers
- Preparation for polishing on high-gloss surfaces
- Fine sanding solid wood, veneers, solid surface materials, priming foil, plaster and plasterboard

7940 siaair – The perfect finish



Product profile

Grit type:	Aluminium oxide
Grit range:	240 – 4000
Backing:	Knitted fabric with foam backings
Coating:	Special process
Bonding:	Resin over resin

Advantages

- High stock removal rates and excellent finish
- Low clogging thanks to damp sanding
- Extremely long lifetime
- Highly adaptable to contours, curves and profiles
- Pressure equalising foam gives perfect surface finish
- Waterproof and washable
- Resistant to silicon remover

Applications

- Matt finish for conventional old and new lacquers as well as composite materials
- Fine sanding of primer fillers in hard-to-reach areas
- Producing a matt finish for blending
- Preparation for polishing on high-gloss surfaces

siasponge



Maximum conformability and process reliability

The siasponge colour concept. The grit range classifications used for siasponge products are based on colour theory. The various grades of foam abrasives have been subdivided based on the colours of the spectrum below.

7972 siasponge soft – For dry sanding in hard-to-reach areas



Product profile

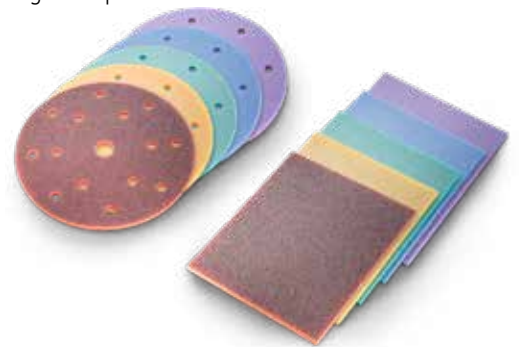
Grit type:	Aluminium oxide
Grade:	Medium – microfine
Backing:	Foam (closed structure)
Coating:	Mechanical
Bonding:	Elastic binder
Coating:	1-sided

Advantages

- Colour coded for easy identification
- Low clogging thanks to 3D properties imparted by foam, binder system and grit
- Minimal risk of sanding through from high contact pressure
- Moulds itself to the workpiece
- Regular scratch depth due to consistent grinding performance
- No risk of sanding through thanks to pressure equalising foam

Applications

- Keying conventional old and new lacquers, primer fillers and paints
- Fine sanding primer fillers in hard-to-reach areas
- Scuffing lacquers
- Keying wood, composite materials, paints, lacquers and primer fillers
- Flattening fillers
- Intermediate sanding of lacquers



Comparison test of siasponge grades with 1950 siaspeed grit ranges

siasponge soft pad (EVA/PU-FOAM)											microfine	microfine	
											ultrafine	ultrafine	
										superfine	superfine	superfine	
												fine	fine
													medium
1950 siaspeed	180	240	280	320	400	500	600	800	1000	1200	1500		

Comparison test under the following conditions:

Test method: LTM9.0 – sia Abrasives applications simulation. Test equipment: 59.275 / Berta, Material: DuPont™ Corian®
Surface roughness measurement (Rz) as per DIN EN ISO 4287

**siachrome – the polishing system:
fast, simple, brilliant**



Product profile

With the siachrome polishing system, sia Abrasives offers an efficient range of products that can be used to reliably carry out all stages of top coat preparation.




Advantages




- Efficient and process-reliable polishing due to colour concept
- Excellent for use on standard and ceramic paints
- Suitable for soft or hard lacquers
- Usable on all polishable surfaces
- Silicone and solvent free, water-based
- Can be used without coolant
- No discolouration of plastic parts











Applications


- Removal of polishing scratches
- Removal of sanding defects from hard lacquers
- Removal of holograms

Polishing material	Dimension	Part number
	siachrome cut 1 kg Highly effective scratch remover	0020.6663
	siachrome cut 250 ml Highly effective scratch remover	0020.7047
	siachrome finish 1 kg Microfine finishing paste	0020.6664
	siachrome finish 250 ml Microfine finishing paste	0020.7048

Glaze	Dimension	Part number
	siachrome pearl 1 litre Glaze	0020.6667
	siachrome pearl 250 ml Glaze	0020.7049
	siachrome platinum 0.2 litre Premium paint wax	0020.6665




Backing pad for polishing	Dimension	Part number
	Ø 75 mm Type: Soft Backing pad for polishing and lambskin pads, siafast hook and loop system M14	0020.4899
	Ø 125 mm Type: Soft Backing pad for polishing and lambskin pads, siafast hook and loop system	0020.6669
	Ø 125 mm Type: Soft Backing pad for polishing and lambskin pads, siafast hook and loop system M 5/8"	0020.6741

Polishing accessories	Dimension	Part number
	Lambskin Ø 135 mm, type: siafast Lambskin for polishing paints and buffing up old paints	0020.6674
	Lambskin Ø 85 mm, type: siafast Lambskin for polishing paints and buffing up old paints	0020.6673
	Polishing disc, yellow Ø 145 mm, type: siafast Polishing disc for polishing paints and buffing up old paints	0020.6671
	Polishing disc, yellow Ø 85 mm, type: siafast Polishing disc for polishing paints and buffing up old paints	0020.6672
	Polishing disc, black Ø 145 mm, type: siafast Polishing disc for removing holograms or sealing applications	0020.6676
	Polishing disc, black Ø 85 mm, type: siafast Polishing disc for removing holograms or sealing applications	0020.6675
	Applications puck Ø 130 mm, the anatomically shaped Applications puck fits well in the palm of the hand during polishing	0020.6668
	Microfibre cloth Microfibre cloth for cleaning surfaces	0020.3185
	Premium cloth Premium cloth for ultra-gentle cleaning of paint finishes	0020.6670
	Polish bottle stand 315 x 104 x 130 mm for 1 kg / 1 l siachrome bottle	0020.7431

Polishing accessories	Dimension	Part number
	siachrome magic 0.5 litres Heavy-duty cleaner	0020.6666

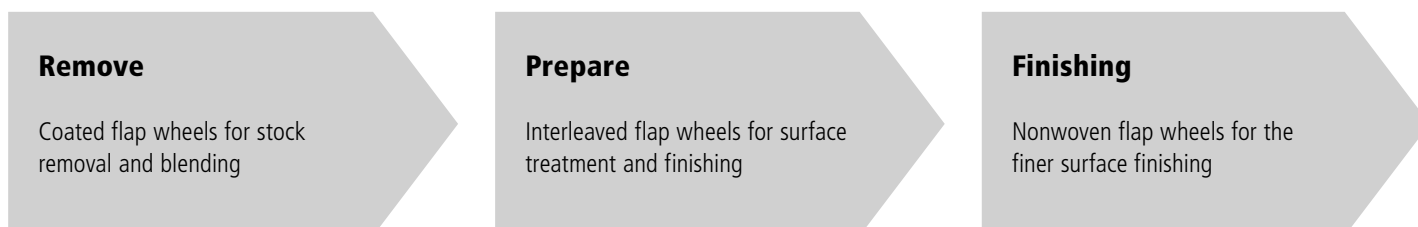


siamop flap wheels provide surface grinding and finishing solutions on all metals for various forms and hard-to-reach places. The range addresses all kinds of requirements: The coated range helps in stock removal while giving a consistent scratch pattern. The interleaved and nonwoven range help in achieving the perfect surface finish.

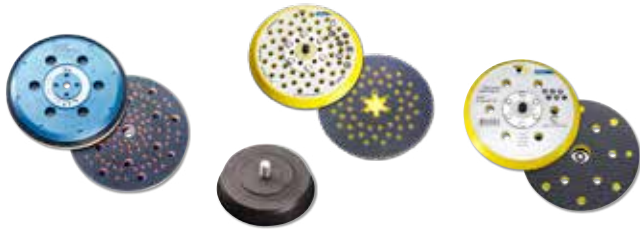
Applications	2923 siamop	6120 siamop interleaved	6120 siamop nonwoven
<ul style="list-style-type: none"> • Deburring • Smoothing and blending of flaws • Preparing • Structuring / finishing • Removing discolouration 			
Differentiation	For grinding and blending on all metal surfaces	For faster surface finishing with portable machine sanding	For finer surface finishing with portable machine sanding
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 regraining and finishing on stainless steel • Highest conformability • Choice between matt or bright surface finish
Product profile			
Grit type	Aluminium oxide	Aluminium oxide	Aluminium oxide, Silicon 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
* nonwoven / coated grit			
Backing	x-wt cloth	x-wt cloth, nonwoven	nonwoven
Materials			
Non-alloy steel / low-alloy steel / mild steel	▼	▼	▼
High-alloy steel stainless steel	▽	▼	▼
Non-ferrous metals	▽	▽	▽
Other metals	▽	▽	▽
Applications			
Heavy	▼		
Standard	▼	▼	▼
Light	▽	▽	▽
Dimensions			
Diameter	Ø 20 – 80 mm	Ø 38 – 100 mm	Ø 38 – 100 mm
Width	10 – 50 mm	25 mm, 50 mm	25 mm, 50 mm

- ▼ Main applications
- ▽ Secondary applications

The complete range for any applications



Backing pad for random orbit sanders



From extra soft to hard, available in all different hole patterns and dimensions, sia Abrasives backing pads are the perfect fit for our sanding systems – for your applications and all common interfaces.

Backing pad	Dimension	Part number	Backing pad	Dimension	Part number
	Ø 150 mm 103-hole Type: Extra soft, siafast hook and loop system Pad: 5/16; M8 backing pad for multi-hole and mesh-like siafast abrasive discs	0020.5742		Ø 125 mm 8-hole Type: Hard, siafast hook and loop system Pad: 5/16 Backing pad for siafast discs	0020.0539
	Ø 150 mm 103-hole Type: Soft, siafast hook and loop system Pad: 5/16; M8 backing pad for multi-hole and mesh-like siafast abrasive discs	0020.5740		Ø 125 mm 54-hole Type: Soft, siafast hook and loop system Pad: 5/16 Backing pad for siafast discs	0020.6728
	Ø 150 mm 103-hole Type: Hard, siafast hook and loop system Pad: 5/16; M8 backing pad for multi-hole and mesh-like siafast abrasive discs	0020.5741		Ø 125 mm 54-hole Type: Hard, siafast hook and loop system Dry applications Pad: 5/16, backing pad for siafast discs	0020.6729
	Ø 30 mm without holes Type: Soft, self-adhesive Pad: 1/4 Backing pad for self-adhesive daisy discs	0020.4689		Ø 150 mm without holes Type: Soft, siafast hook and loop system Pad: 5/16 Backing pad for siafast discs	0020.0346
	Ø 32 mm without holes Type: Soft, siafast hook and loop system Pad: 5/16 Backing pad for self-adhesive daisy discs	0020.1839		Ø 150 mm without holes Type: Soft, siafast hook and loop system Pad: 5/16 Backing pad for siafast discs	0020.6736
	Ø 77 mm without holes Type: Soft, siafast hook and loop system Pad: 5/16 Backing pad for siafast discs	0020.1988		Ø 150 mm without holes Type: Hard, siafast hook and loop system Pad: 5/16 Backing pad for siafast discs	0020.0345
	Ø 125 mm without holes Type: Soft, siafast hook and loop system Pad: 5/16 Backing pad for siafast discs	0020.6730		Ø 150 mm without holes Type: Hard, siafast hook and loop system Pad: 5/16 Backing pad for siafast discs	0020.6737
	Ø 125 mm without holes Type: Hard, siafast hook and loop system Pad: 5/16 Backing pad for siafast discs	0020.6731		Ø 150 mm 15-hole Type: Soft, siafast hook and loop system Pad: 5/16 Backing pad for siafast discs	0020.4740
	Ø 125 mm 8-hole Type: Extra soft, siafast hook and loop system Pad: 5/16 Backing pad for siafast discs	0020.0540		Ø 150 mm 54-hole Type: Soft, siafast hook and loop system Pad: 5/16 Backing pad for siafast discs	0020.6734
	Ø 150 mm 54-hole Type: Hard, siafast hook and loop system Pad: 5/16 Backing pad for siafast discs	0020.6735		Ø 200 mm 9-hole/multi-hole Type: Soft, siafast hook and loop system Backing pad for siafast discs	0020.4647

Backing pad for rotary sanders



Wide range of backing pads for rotary sanders in different dimensions, hardnesses and for all common interfaces.

Backing pad	Dimension	Part number	Intermediate and protective discs	Dimension	Part number
	Ø 115 mm Type: Hard Pad: M14 Backing pad for fibre discs	0020.0348		Intermediate pad Ø 77 mm, without hole Type: Dry sanding Thickness: 12 mm Pressure-equalising foam intermediate pad	0020.0269
	Ø 125 mm Type: Hard Pad: 5/8 Backing pad for fibre discs	0020.0431		Intermediate pad Ø 125 mm, 54-hole Type: Dry sanding Thickness: 10 mm Pressure-equalising foam intermediate pad for multi-hole and mesh-like abrasive discs	0020.7234
	Ø 125 mm Type: Hard Pad: M14 Backing pad for fibre discs	0020.0350		Intermediate pad Ø 125 mm, 54-hole Type: Dry sanding Thickness: 5 mm Pressure equalising foam intermediate pad for multi-hole and mesh-like abrasive discs	0020.7429
	Ø 50 mm Type: Hard, siafix quick change system Pad: 1/4", 6 mm Backing pad for siafix discs and mini angle grinder	0020.0132		Protective disc Ø 145 mm, without holes Thickness: 1 mm siafast for siaair and siacarat Discs with Ø 150 mm	0020.3453
	Ø 75 mm Type: Hard, siafix quick change system Pad: 1/4", 6 mm Backing pad for siafix discs and mini angle grinder	0020.0133			Intermediate pad Ø 147 mm, 33-hole Thickness: 1 mm Ensures optimal extraction by S Performance multihole disc on Mikroklett backing pad
	Ø 115 mm Type: Hard Pad: M14 Backing pad for scm discs	0020.0396		Intermediate pad Ø 150 mm, 15-hole Type: Dry sanding Thickness: 12 mm Pressure equalising foam intermediate pad	0020.4546
	Ø 115 mm Type: Soft, siafast hook and loop system Pad: 5/8 Backing pad for siafast discs	0020.2325			Intermediate pad Ø 150 mm, 103-hole Type: Dry sanding Thickness: 10 mm Pressure equalising foam intermediate pad for multi-hole and mesh-like abrasive discs
	Ø 115 mm Type: Soft, siafast hook and loop system Pad: M14 Backing pad for siafast discs	0020.0172	Intermediate pad Ø 150 mm, 103-hole Type: Dry sanding Thickness: 5 mm Pressure equalising foam intermediate pad for multi-hole and mesh-like abrasive discs		0020.7430

Hand sanding blocks



Complete sanding systems also offer hand sanding blocks. sia Abrasives provides hand sanding blocks and pads from small dimensions for spot repair up to special shapes for wet sanding in various grades of hardness.

Hand sanding blocks	Dimension	Part number	Hand sanding blocks	Dimension	Part number
	Finiblock for self-adhesive discs Ø 30 mm Type: Double-sided (soft/hard) self-adhesive	0020.3286		Cork hand sanding block 70 x 125 x 40 mm Type: Hard siafast hook and loop system Dry applications	0020.0095
	Finiblock for siafast discs Ø 30 mm Type: Double-sided (soft/hard) siafast hook and loop system	0020.3285		Hand sanding block 70 x 125 x 30 mm Type: Hard siafast hook and loop system Dry and wet sanding	0020.0389
	Hand sanding block with centre hole Ø 73 mm Type: Soft siafast hook and loop system 22 mm centre hole	0020.7388		Hand sanding block 70 x 125 x 38 mm Type: Double-sided (medium hard-blue/ extra soft-white) siafast hook and loop system Dry applications	0020.0342
	Hand sanding pad round Ø 150 mm Type: Soft siafast hook and loop system	0020.0364		70 x 125 mm 29-hole	0020.6514
	Hand sanding block 60 x 128 x 16 mm Type: Double-sided (extra soft-orange/ soft-black) Wet sanding	0020.3713		70 x 198 mm 41-hole	0020.6515
	Hand sanding block 67 x 122 x 35 mm Type: Double-sided (soft/hard) siafast hook and loop system Wet sanding	0020.0343		70 x 400 mm 68-hole	0020.6516
				115 x 230 mm 49-hole	0020.6517



Product search
Aerospace applications

	Materials											Conversion forms							Use						
	Acrylic glas	Paints	Gelcoats	Primers	High alloyed steel	Plastic material	Metals	Non-ferrous metals	Putty	Other difficult to machine materials	Non or low alloyed steels	Composites	Belts	Sheets	Delta and polygons	Flap wheels	Rolls	Foam abrasives	Discs	Strips	System components	Portable machine sanding	Manual sanding	Stationary belt sanding	Stationary machine sanding
1815 siatop					▼			▼			▼							▼				▼			▼
1913 siawat		▼		▼					▼				▼				▼	▼	▼			▼	▼	▼	▼
1944 siaone	▼	▼	▼	▼		▼					▼		▼				▼	▼	▼	▼		▼	▼	▼	
1950 siaspeed	▼	▼	▼	▼		▼			▼				▼		▼		▼	▼	▼	▼		▼	▼	▼	
2511 siabite					▼		▼			▼			▼			▼						▼			
2820 siamet							▼	▼			▼	▼	▼					▼				▼		▼	
2925 sialoX					▼			▼				▼			▼		▼	▼	▼	▼		▼			
4570 siabite X					▼						▼							▼	▼	▼		▼			
6120 siafleece		▼	▼	▼	▼	▼	▼	▼			▼				▼	▼	▼	▼	▼	▼		▼	▼	▼	
6140 siafleece sd					▼				▼	▼	▼						▼	▼	▼	▼		▼	▼		
6270 siamet SCM LS					▼			▼		▼	▼		▼				▼	▼	▼	▼		▼			
6924 siamet HD		▼		▼	▼		▼	▼		▼	▼		▼				▼	▼	▼	▼		▼			
7241 siacarbon			▼	▼		▼	▼											▼	▼	▼		▼			
7500 siamet CER		▼	▼	▼		▼	▼		▼								▼	▼	▼	▼		▼	▼		
7900 siamet		▼	▼	▼		▼	▼		▼								▼	▼	▼	▼		▼	▼		
7940 siaair		▼	▼			▼											▼	▼	▼	▼		▼	▼		
7972 siasponge soft		▼		▼		▼											▼	▼	▼	▼		▼			

▼ Main applications
▽ Side applications



Application steps														Backings													
Sanding off	Sanding down	Keying	Sanding out	Removing discolouration	Removing rust and paint	Deburring	Fine sanding	Finishing	Blending	Lacquer retouching	Scuffing	Surface treatment	Flattening	Polishing	Weld preparation	Structuring	Fibre	Cloth rigid	Paper light	Paper heavy	Special	Fleece	Wet sanding	Self-adhesive	siafast (hook and loop)	siasoft (sponge)	Dry applications
▼				▼	▼	▼						▼			▼		▼		▼					▼		▼	
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80 – 400	38
240 – 4000	38
medium – microfine	39

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