



High-tech Belts

High-performance coated abrasives for the boardmaking industry



Expertise

Your Key to a Perfect Surface

sia Abrasives is one of the world's most successful suppliers of abrasives and sanding systems. Our success is based on innovative management and sound financial structures, enhanced by above-average reliability, excellently trained staff and a wealth of in-depth experience. In fact, we have been concentrating on our core competence – surface processing – for more than 135 years. This focus guarantees that our business partners will find that we are always ready to make the maximum effort – we supply quality products at value-for-money prices. Working on a basis of trust, we are fully committed to achieving maximum customer satisfaction.

www.sia-abrasives.com





Quality products

Made in Switzerland

Carefully selected first-class raw materials, ultra-modern production and packaging plant, and highly advanced sia production technologies – these are the factors that guarantee consistently high-quality products. sia abrasives are developed on the basis of detailed material analysis to meet demanding user needs. This means that sia abrasives are representative examples of high-grade Swiss precision and quality workmanship – in line with our goal, «commitment to top quality surfaces». sia Abrasives' quality management system is certified to ISO 9001.

Use sia abrasives for the good of the environment:

Ecology

1. Ecological responsibility

In the development, procurement and manufacture of sia abrasives, we accord high priority to protecting people, the environment and resources.

2. Clean production

Modern bonding systems and extensive extracted air purifying installations ensure that all sia abrasives are produced in an environmentally friendly way, free of emissions.

3. Safe disposal

All sia abrasives are free from hazardous materials and can be safely and harmlessly disposed of in conventional industrial and public waste incinerators.

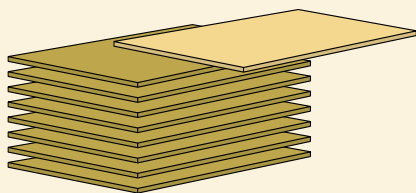


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Customer advice



On-site – professional to professional

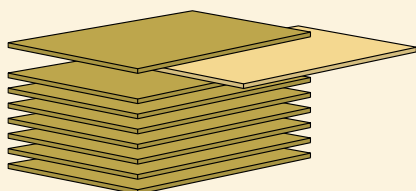
As requirements become more and more complex, there is an increasing need for specific expertise. Our specialists bring their many years of experience to your door, helping you find optimum solutions to every question involving sanding technology.

We place a great deal of emphasis on providing advice – for example, correct handling of the sanding belts can save time, reduce waste and thereby bring cost savings. On request, we can even offer sanding seminars tailored to your requirements.

Even after excellent training, sanding problems can still occur, and in these cases our sanding technicians are on hand to offer personal assistance either on site or by telephone.



Surface technology

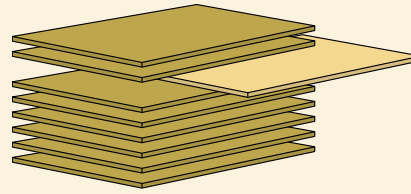


Cost-effective, profitable and efficient

Perfect surfaces are becoming more important all the time. Our comprehensive high-performance system guarantees top results, meeting board manufacturers' requirements for cost-effectiveness, profitability and efficiency. The required surface quality is achieved by a carefully coordinated combination of the correct abrasive and the ideal belt joint, sanding machines and material. Our highly experienced specialists know the right solution for every application.



Machining process



On-site professional analysis

To enable you to optimise your machining process, our sanding technicians will pass on their knowledge and experience of how to use the right product, as well as the correct grit sequence for calibration, intermediate and final sanding. Their recommendations take full account of key factors such as cutting speed and chip removal. Close cooperation with leading sanding machine manufacturers and board producers ensures that our range meets the needs of our customers, helping them reduce costs by using the appropriate abrasives.

Cost saving

Reduction of machine downtimes by:

- Using high-quality abrasives
- Applying our high-tech siaslide pad system
- Regular servicing of the sanding pads (felt or PUR strips and graphite cloth)
- Carrying out general maintenance work
- Using a belt loading aid
- Not wearing the belts out to the stage of joint damage and breakage
- Compliance with the correct belt handling and storage recommendations



Sufoma



Heesemann



Imeas



Binos



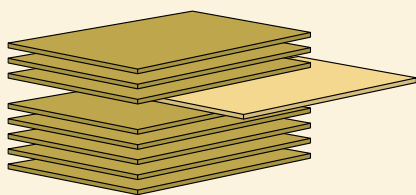
Kimwood



Steinemann

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Abrasives



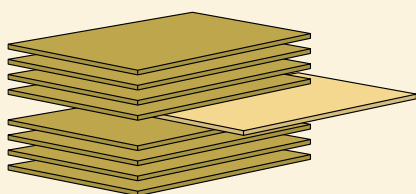
High-tech belts in Swiss precision

siapan belts are state-of-the-art products, manufactured with meticulous care from selected raw materials. This is why they meet the most demanding requirements regarding stability and surface quality.

Belt joints are extremely important elements in the structure of a sanding belt. They have to be carefully chosen to match the application and the particular abrasive product. Every belt joint has a major influence on the surface quality of the boards, because even the slightest imperfections are discernible on the workpiece.



Tools and accessories

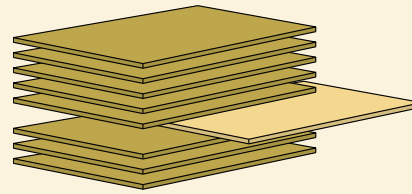


Comprehensive range

Our comprehensive range of accessories, both for our unique siaslide pad system and for all conventional sanding pad types, comprises products that have been tried and tested in practical use. Expertise in selecting the right sanding pad to meet the requirements of the application is the key to a perfect sanding result.



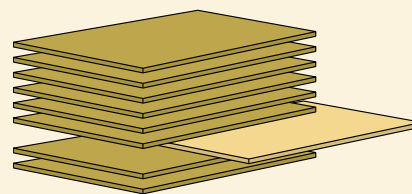
Application training



Customer-specific seminars in Switzerland

Every year, many specialists from a very wide range of industrial sectors receive comprehensive training at our training centre in Frauenfeld. In the calm and relaxed atmosphere of our seminars, participants can extend their knowledge of the products and exchange their experiences. This is the starting point of many long-lasting business relationships.

Documentation

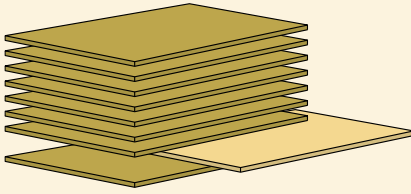


Application-orientated, safe and clear

A variety of documentation, such as product data sheets, belt-handling recommendations, and storage and transport recommendations provide valuable reference to complement the information provided by our specialists.

In particular, we draw your attention to FEPA safety recommendations and FEPA safety data sheets for abrasives on backing materials. You can download these documents from our website at www.sia-abrasives.com.

Packaging



Perfect protection

siapan belts for the boardmaking industry are packaged in special cartons to ensure perfect protection during transport and storage. For paper and combination belts, an additional airtight polyethylene packaging is used to provide extra protection from changing climatic conditions.

Clear marking of every packaging unit

- Number
- Form number
- Grit size
- Product name and number
- Dimensions
- Order number
- Article number
- Pictogram showing type of abrasive
- Barcode
- Safety symbols

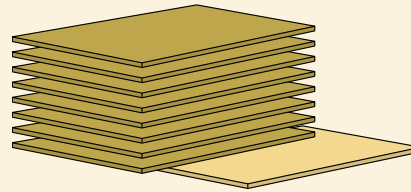
All sia abrasives are extremely resistant under normal climatic conditions. Suitable storage will ensure that the full performance characteristics are maintained.

Optimum storage

- Storage in the original cartons, in a horizontal or vertical position
- No direct contact with concrete floors (possibility of moisture absorption)
- Do not store near open windows (draughts) or in the direct vicinity of heaters
- Ideal storage temperature: 18°C – 25°C
- Relative humidity: approx. 55%
- Paper and combination (paper/cloth) belts should be removed from the packaging two days before use and properly hung



Distribution



The right quantity to the right place at the right time

Worldwide sales of our products and services are guaranteed as a result of an extremely efficient, intelligent distribution system. Our local specialists spare no effort to keep improving the system, constantly adapting it to our customers' needs.

The sia group has a presence in more than 85 countries throughout the world, with 15 group companies and a large number of proven agencies.







Advantages

- Suitable for the complete sanding process from calibrating to fine sanding
- High tearing resistance
- Able to bridge big gaps between guide roll and sanding shoe
- Withstanding high lateral forces of oscillation
- Well suited for all types of industrial sanding machines
- For frequent belt changes
- For abrasive planing
- High climatic resistance
- Very good life time
- Easy to handle
- Washable

Application

- Contact sanding
- Pad sanding
- Calibrating, medium and fine sanding
- Wide belt sanding

2728 siapan

new

Product profile: 2728 siapan TopTec

| | |
|-------------|---------------------------------|
| Grain type: | silicon carbide |
| Coating: | electro statically, open coat |
| Bonding: | resin over resin |
| Backing: | heavy Z-weight cloth, polyester |
| Grit range: | P040 – P180 |

siapan high-tech belts

siapan belts are state-of-the-art products manufactured with meticulous care from selected raw materials, to meet the most demanding requirements for stability and surface quality.



| Material | Use | |
|--|------------------------|-------------|
| Particle boards MDF boards HDF boards | Calibration sanding | <div></div> |
| | Intermediate sanding | <div></div> |
| | Final sanding | <div></div> |
| OSB boards | All sanding operations | <div></div> |
| Plywood boards Core boards Glued wooden boards Formboards | Calibration sanding | <div></div> |
| | Intermediate sanding | <div></div> |
| | Final sanding | <div></div> |
| Synthetic resin boards Laminates | All sanding operations | <div></div> |
| | Roughening reverse | <div></div> |

Grit range

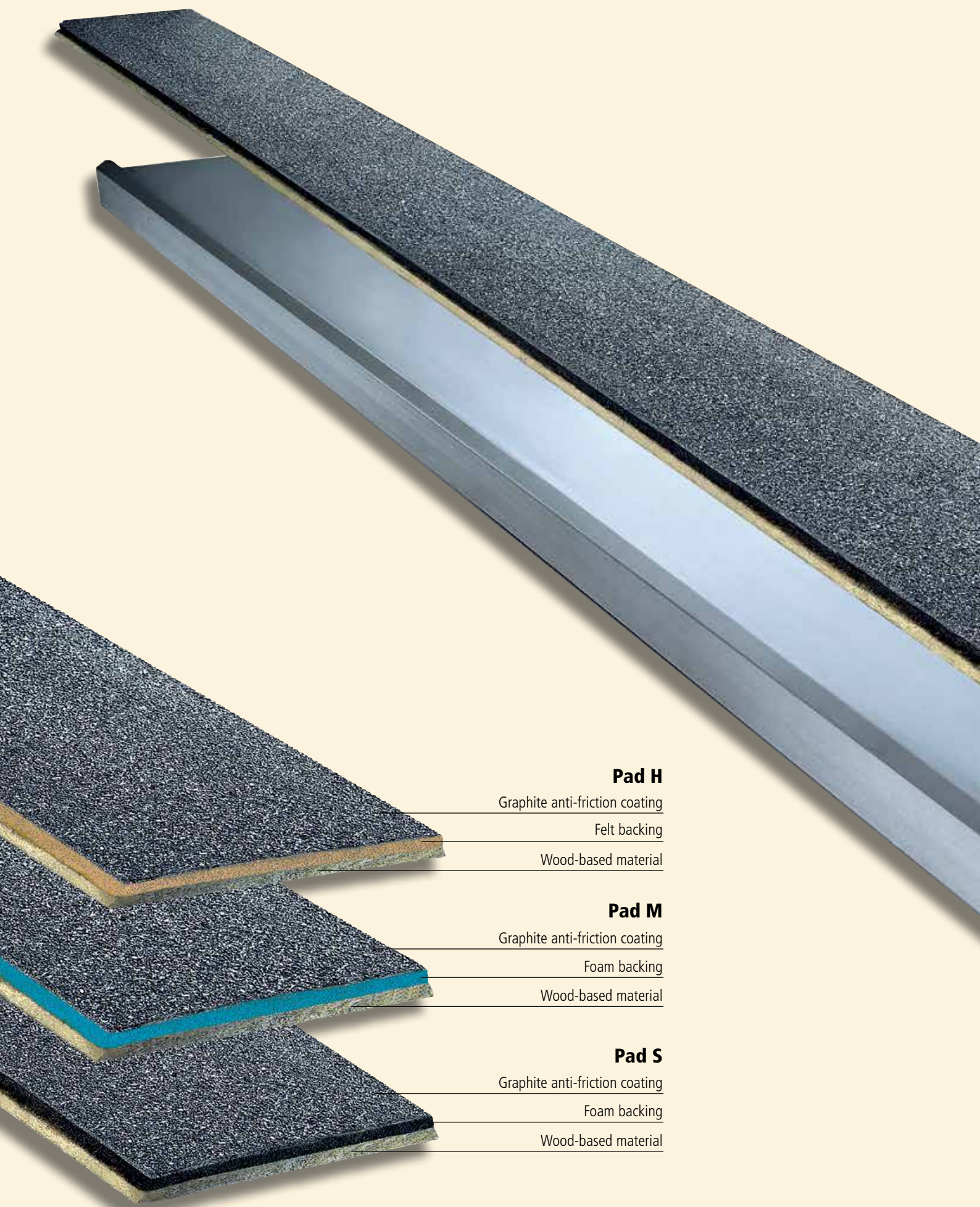
| | |
|------|-------------|
| P024 | |
| P036 | |
| P040 | <div></div> |
| P050 | <div></div> |
| P060 | <div></div> |
| P080 | <div></div> |
| P100 | <div></div> |
| P120 | <div></div> |
| P150 | <div></div> |
| P180 | <div></div> |
| P220 | |

| | |
|--------------------|--|
| Backing | z-weight polyester cloth (strong) |
| Grit type | silicon carbide |
| Sanding belt width | up to 3300 mm |
| Belt joint | <div><div></div><div></div></div> <div>P040 – P180 Spliced joint with tape inserted on the grit side, no excess thickness anywhere in the grit range.</div> |

Recommendations

- Emphasis on efficiency or the rate of chip removal
- Exceptions
- Emphasis on finish or board surface quality
- Exceptions

P024 – P050 (available on request)
Joint for the coarse grit range. The grit coating is ground down in the overlapped area.



Pad H

- Graphite anti-friction coating
- Felt backing
- Wood-based material

Pad M

- Graphite anti-friction coating
- Foam backing
- Wood-based material

Pad S

- Graphite anti-friction coating
- Foam backing
- Wood-based material

siaslide pad system



The innovation for consistent sanding precision

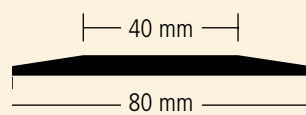
The new feature is the sanding shoe with the innovative siaslide pad, making life considerably easier for the user. Time-consuming fitting of the abrasive is a thing of the past with the siaslide pad system, because the permanently installed sanding platen (aluminium beam) remains in the machine even when the siaslide pads are being changed.

The ready-to-use pad – comprising a wooden carrier and a support backing with graphite – is simply pushed into the shoe. This ease of handling speeds up the work process as a result of shorter machine changeover times. An additional benefit is the elimination of expensive maintenance and spare-parts costs. Users can enjoy consistent precision in the sanding process, with perfect results on the workpiece. A positive side effect is that the siaslide pad can be disposed of or recycled on site.

The siaslide pad system is an ideal complement to the top Swiss quality siapan high-tech belts.

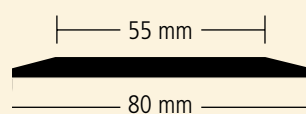


siaslide pad system range:



Pad type 80/40

Version: felt (heavy) or PU foam (soft + medium)
Length: 685 – 3480 mm



Pad type 80/55

Version: felt (heavy) or PU foam (soft + medium)
Length: 685 – 3480 mm

Abrasive belts for perfect surfaces

The new TopTec generation of abrasive belts from sia Abrasives marks another milestone in the development of application-optimized abrasive belts that offer major customer benefits.

They achieve outstanding sanding results and excellent surface quality by combining several key assets – a controlled coating process, belt joints that are individually matched to the application and the abrasive backing, and antistatic properties based on an innovative production process.

Controlled coating



sia high-tech coating machines guarantee:

- Optimized grit quantities
- Perfect grit adhesion
- Uniform grit positioning
- Tested to FEPA standard

...Benefits that all add up to perfect surface quality

Best belt joints



sia belt joints lead the market thanks to their consistently high quality:

- Specific application-oriented belt joints
- High-quality processing
- High stability and long lifetimes
- No sanding errors

...Benefits that all add up to perfect surface quality

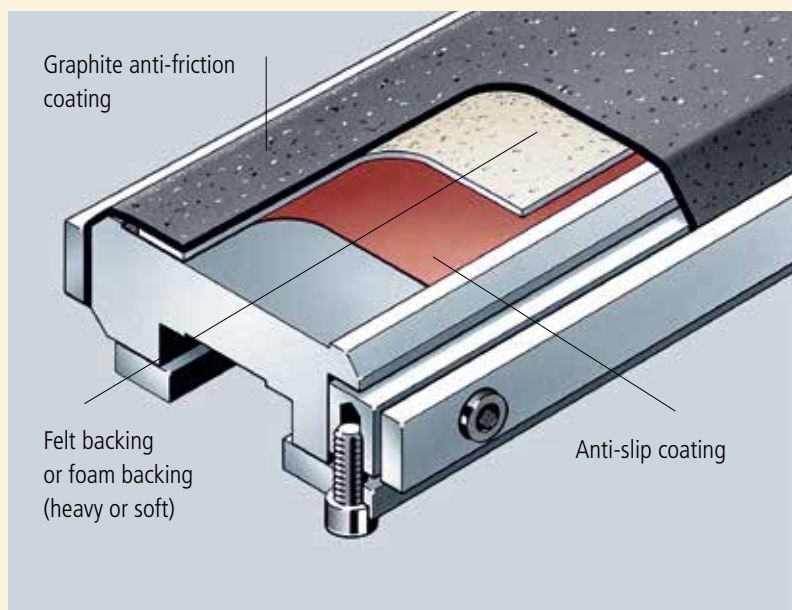
Dust-free process



The antistatic treatment of the belts gives you these benefits:

- Dust-free workpieces
- Clean machines
- Efficient dust extraction
- Clean ambient air
- Longer belt lifetimes
- Low clogging

...Benefits that all add up to perfect surface quality



The alternative

Everything for conventional sanding platen units

Our wide, comprehensive range of accessories for conventional sanding platen units is coordinated to the entire range of abrasives, fully meeting every need of users worldwide.

| Application | Product | Rolls | Article no. |
|--|--------------------------|--|---|
| Graphite canvas, scaly (HD) for general purposes | 9006 siaphit 1 | 150 mm x 50 m 180 mm x 50 m | 8308.2900 5909.5942 |
| Graphite canvas, granular (450) for extreme operating conditions | 9060 siaphit 5 | 150 mm x 50 m 180 mm x 50 m | 9460.8608 7062.2117 |
| Felt backing, (wool felt), for sanding platen Thickness: 3 mm Density: 0,44 g/cm ³ Colour: white | 9063 siafelt | 40 mm x 25 m 67 mm x 25 m 75 mm x 25 m 107 mm x 25 m | 7781.6090 4625.9993 9967.0324 1427.8005 |
| Felt backing, (wool felt), for sanding platen) Thickness: 3 mm Density: 0,53 g/cm ³ Colour: beige | sia support hp-h | 40 mm x 50 m 65 mm x 50 m 110 mm x 50 m | 0020.3181 0020.3183 0020.3201 |
| Foam backing, for sanding platen CFC-free PU foam Thickness: 5 mm Temperature- and form-resistant up to 100 °C | 9165 siapur light | 40 mm x 30 m 47 mm x 30 m 67 mm x 30 m *77 mm x 30 m 107 mm x 30 m | 0020.0556 0020.1463 0020.0557 0020.2379 0020.0325 |
| Foam backing, for sanding platen CFC-free PU foam Thickness: 3,5 mm Temperature- and form-resistant up to 100 °C | 9239 siapur heavy | 40 mm x 30 m 67 mm x 30 m | 0020.2198 0020.2196 |
| Anti-slip support, flexible abrasive, P60, self-adhesive | 1919 siawood | 68 mm x 25 m 108 mm x 25 m | 3819.2295 0621.0307 |

* items not stocked





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