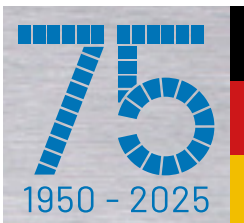




FALKENRICH
FALCONBRITE ABRASIVES™

Surface Technology

Deburring · Cleaning · Finishing



Quality & Reliability
Made in Germany

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Your Specialist for perfect Surfaces

Since its establishment in 1950, the family business Falkenrich has evolved to become one of the leading specialists in the production and conversion of abrasive non-woven products.

Our employees have many years of experience in the metalworking industry. Through their involvement in numerous projects and applications they have gained extensive knowledge of the special requirements in surface processing with abrasive and flexible non-woven abrasives. Our application and customer-oriented expertise is the basis for solving the demanding problems of our customers, particularly in applications found in the metal, plastic, circuit board and wood-working industries.

Falkenrich is a competent, well-recognized and reliable partner for customized products for surface processing to the highest quality standards. As part of our quality assurance our products are regularly checked in our own laboratories. Falkenrich products represent the globally recognized quality "Made in Germany".

In cooperation with our worldwide sales partners our customers benefit from our application know-how and from the proven quality of our products.

We are happy to assist you with our specialist knowledge and we look forward to meeting you.

Your Falkenrich sales team



Products for mechanical and manual Processing

Falkenrich products are made from synthetic fibres and abrasive particles that are combined into a conformable, three dimensional, open web material with exceptional performance characteristics.

The synthetic fibre and abrasive particles are bonded with special heat resistant resin, firmly fixing the particles to the non-woven structure. The flexible and open structure has no tendency to clog, is self-cleaning and can be used for wet and dry applications.

Falkenrich offers one of the widest product ranges of different non-woven materials worldwide. We convert exclusively in our facilities in Germany. Extensive and permanent testing in our own laboratories ensures the highest quality "Made in Germany" of all products.

We deliver customized products specifically for your application.

Type			FALCONBRITE Flap Non-impregnated
1			



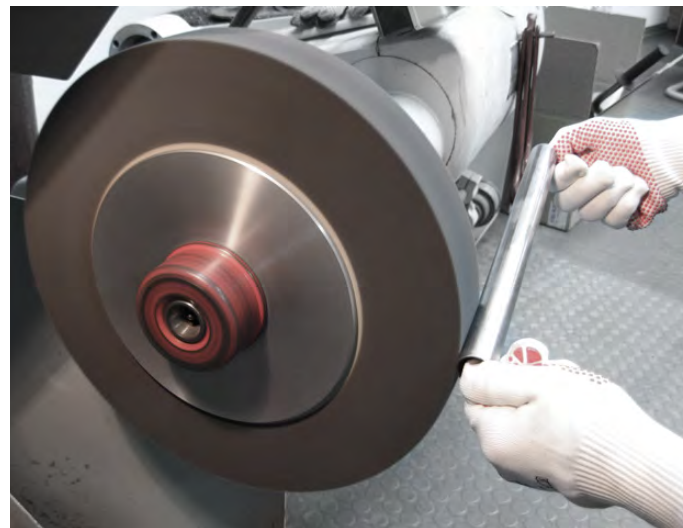
These products consist of a non-woven abrasive fleece arranged in a **star shape** which is anchored to a support tube.

These adaptable and flexible brushes achieve a uniform line pattern for technical applications, for cleaning, light deburring work and decorative finishes. The hardness depends on the number of flaps applied. Flap brushes and flap rollers are available in all grain sizes, grain types, dimensions and hardnesses.

Product Features

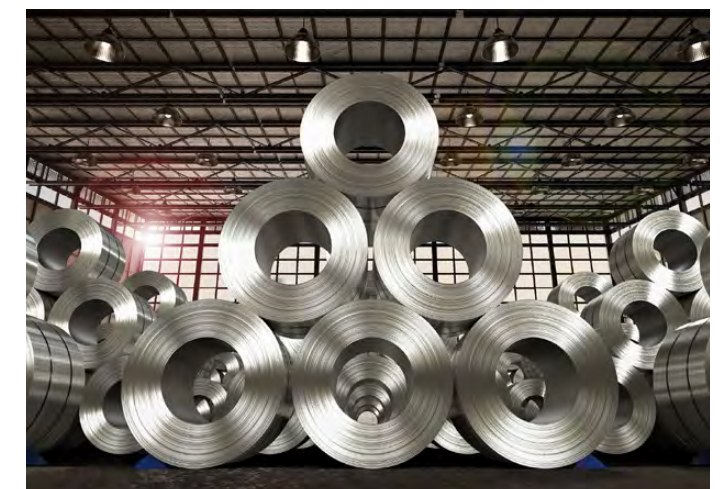
- Star-shaped grouping FALCONBRITE
- Various hardnesses
- Various degrees of grit size and various grain types
- No additional impregnation
- No clogging of the tool surface
- Flexibility adjustable
- Profileable
- Balanced
- Reproducible surfaces

	extra soft	soft*	medium	hard*	harder	very hard*	extra hard
Hardness	2	3	4	5	6	7	8

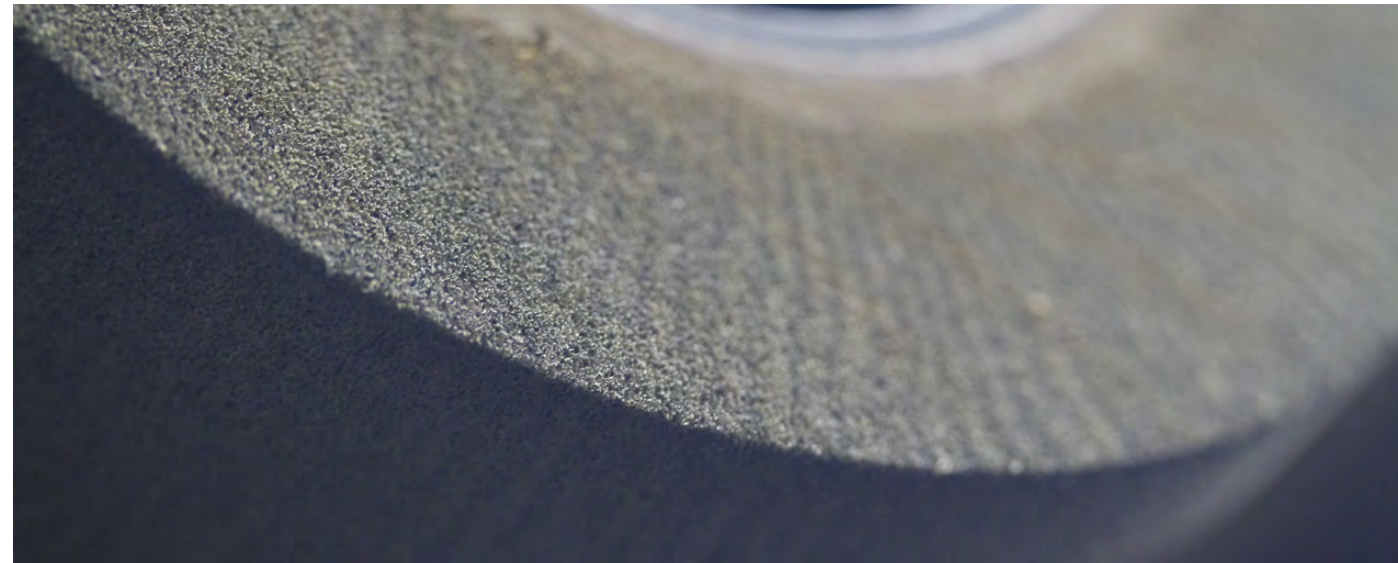


Applications

- Decorative and technical surfaces on steel, stainless steel, non-ferrous metal, wood, plastic, ceramic and glass
- Satinizing
- Matting
- Cleaning
- Deburring
- Fine grinding
- Roughening
- Edge rounding
- Plate and strip processing
- Woodworking
- Lacquer sanding
- Effective removal of corrosion, burrs, dirt
- Decorative, even surface finish with a defined roughness depth, e.g. stainless steel, copper and brass
- Removal of punching and firing burrs with defined edge rounding
- Matting and satinizing various metal and plastic parts



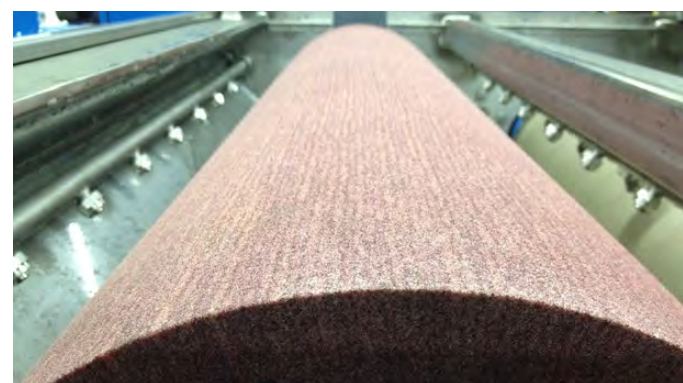
Type			FALCONBRITE Flap PU-impregnated
2			



Product Features

- Star-shaped grouping FALCONBRITE
- Various hardnesses
- Various degrees of grit size and various grain types
- Temperature resistant duroplast impregnation
- Also available as longlife impregnation
- Flexibility adjustable
- High edge stability
- Reproducible surfaces
- Balanced

The **star-shaped** abrasive fleece is anchored to a support tube. In addition it is permeated with a permanently elastic and wear-resistant **impregnation**. These wear-resistant but flexible brushes achieve a uniform line pattern for technical or decorative use in light to heavy deburring work. We deliver different hardnesses for every application.

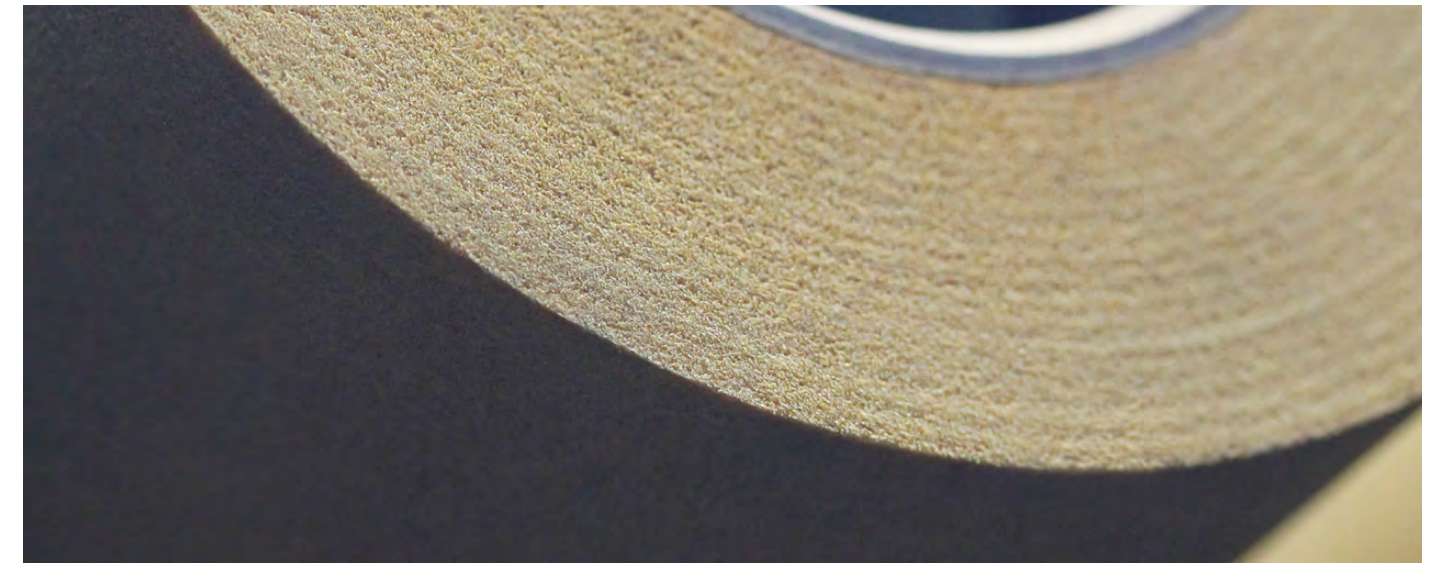


Applications

- Effective removal of corrosion, burrs, dirt
- Decorative, even surface finish with a defined roughness depth, e.g. stainless steel, copper and brass
- Removal of punching and firing burrs with defined edge rounding
- Matting and satinizing various metal and plastic parts
- Descaling flame cuts
- Finishing

	extra soft	soft*	medium*	hard	harder*	very hard	extra hard
Hardness	2	3	4	-	6	7	8

Type			FALCONBRITE Convolute PU-impregnated
3			



Product Features

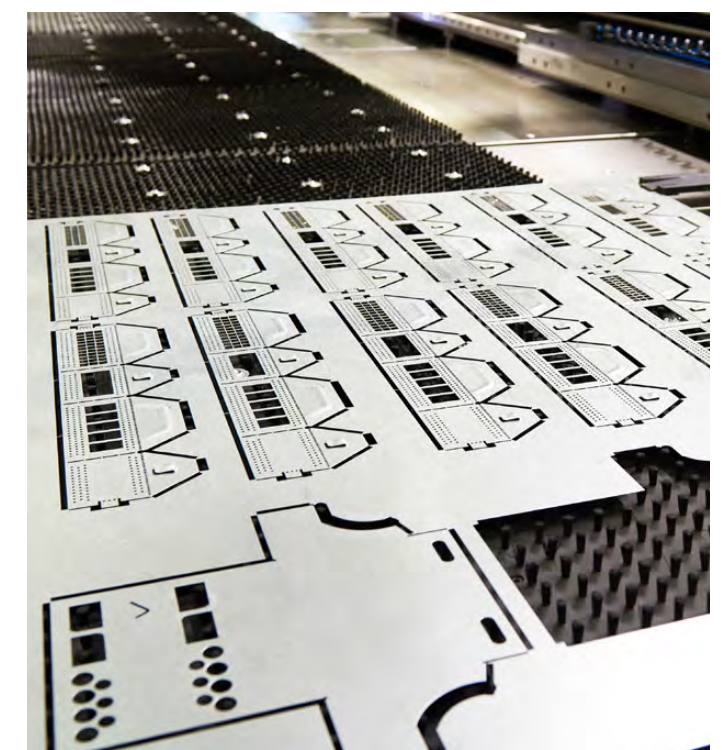
- Spiral wound brushes FALCONBRITE
- Various hardnesses
- Various degrees of grit size and various grain types
- Temperature resistant duroplast impregnation
- Also available as longlife impregnation
- Flexibility adjustable
- Constant hardness
- High edge stability
- Balanced

The non-woven abrasive fleece is **convoluted** around a support tube. In addition it is permeated with a permanently elastic and wear-resistant **impregnation**. These flexible brushes are especially suitable for a uniform line drawing for technical or decorative surfaces. We deliver different hardnesses for every application.

Applications

- Effective removal of corrosion, burrs, dirt
- Decorative, even surface finish with a defined roughness depth, e.g. stainless steel, copper and brass
- Removal of punching and firing burrs with defined edge rounding
- Matting and satinizing various metal and plastic parts
- Descaling flame cuts
- Finishing

	extra soft	soft	medium	hard	harder*	very hard	extra hard
Hardness	-	-	-	5	6	7	8



Type 4		FALCONBRITE Disc PU-impregnated
------------------	---	---



These wear-resistant but flexible brushes achieve a uniform line pattern with constant hardness for technical use in light to heavy deburring work.

Product Features

- Axial divisible rollers and discs FALCONBRITE
- Various hardnesses
- Various grain types
- Temperature resistant duroplast impregnation
- Also available as longlife impregnation
- Constant hardness
- High micro-accuracy
- Flexibility adjustable
- High edge stability
- Reproducible surfaces
- Balanced

Applications

- Effective removal of corrosion, burrs, dirt
- Decorative, even surface finish with a defined roughness depth, e.g. stainless steel, copper and brass
- Removal of punching and firing burrs with defined edge rounding
- Matting and satinizing various metal and plastic parts
- Descaling flame cuts
- Finishing

	extra soft	soft	medium	hard	harder*	very hard	extra hard
Hardness	-	3	-	-	6	-	-

Type 5		FALCONBRITE Flap Liquid-impregnated
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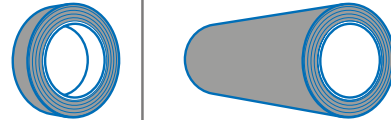
Product Features

- Star-shaped grouping FALCONBRITE
- Various hardnesses and grain types
- Temperature resistant duroplast impregnation
- Also available as longlife impregnation
- High micro-accuracy
- Free of vibration
- **Open structure**

	extra soft	soft*	medium	hard	harder*	very hard	extra hard
Hardness	-	3	4	5	6	7	8

Applications

- Effective removal of corrosion, burrs, dirt
- Decorative, even surface finish with a defined roughness depth, e.g. stainless steel, copper and brass
- Removal of punching and firing burrs with defined edge rounding
- Matting and satinizing various metal and plastic parts
- Descaling flame cuts
- Easy deburring
- Finishing

Type 6		FALCONBRITE Convolute Liquid-impregnated
------------------	--	--

Product Features

- Spiral wound brushes FALCONBRITE
- Various hardnesses and grain types
- Temperature resistant duroplast impregnation
- Also available as longlife impregnation
- Constant hardness
- High micro-accuracy
- Free of vibration
- **Open structure**

	extra soft	soft	medium	hard	harder*	very hard	extra hard
Hardness	-	3	-	5	6	7	8

Applications

- Effective removal of corrosion, burrs, dirt
- Decorative, even surface finish with a defined roughness depth, e.g. stainless steel, copper and brass
- Removal of punching and firing burrs with defined edge rounding
- Matting and satinizing various metal and plastic parts
- Descaling flame cuts
- Easy deburring
- Finishing



  **ROLLS, HAND PADS**
Manual Applications



Product Features

FALCONBRITE rolled goods as well as handpads and discs consist of non-woven nylon fibers in which the abrasive grain is evenly distributed.

The elastic material adapts to any surface and enables consistent work results throughout its lifespan.

All FALCONBRITE products can be used dryly or with water, emulsion or oil.

Dimensions of Rolls

Standard length in mm: **10.000**
Standard width in mm: **100 / 115 / 125 / 150**
Other dimensions on request

Applications

- Cleaning
- Surface preparation
- Fine deburring and finishing of steel sheets, non-ferrous metals, wood and plastic parts
- Removal of varnish and putty
- Removal of small scores and light scratches
- Corrosion removal
- Matting
- Polishing
- Roughening
- Surface micro removal

Dimensions of Hand Pads

Standard cuts in mm: **155 x 210 / 155 x 224 / 150 x 230**
Other dimensions on request

 **DISCS / FALCONBRITE SCD**
Machine Applications

Dimensions of Discs

Standard diameter in mm: **150 / 200 / 250**
Other dimensions on request
With VELCRO back on request



Dimensions of SCD

Standard diameter in mm: **115 / 125 / 178 / 203**
Other dimensions on request



 **BIAS MOPS**
Machine Applications

An indirect oscillation is achieved through the folded arrangement of the FALCONBRITE material. Folded rings can be made of any width according to customer requirements.



 **COMBI-WHEELS**
Machine Applications

In the manufacture of wheels and large rollers, FALCONBRITE non-woven is combined with abrasive cloth, thereby achieving an increased abrasive effect.

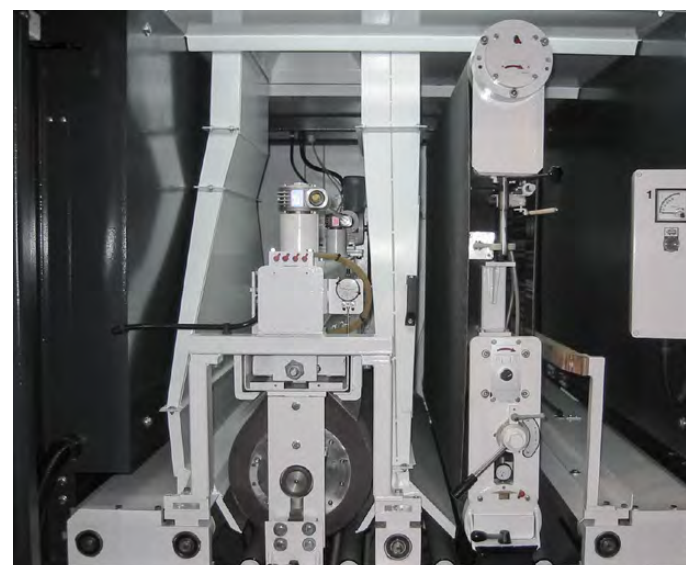


Further Products



Compatible brushing and grinding Machines

Our products can be used in machines of all manufacturers. We are happy to advise you on: [+49 2371 8252-0](tel:+49237182520)



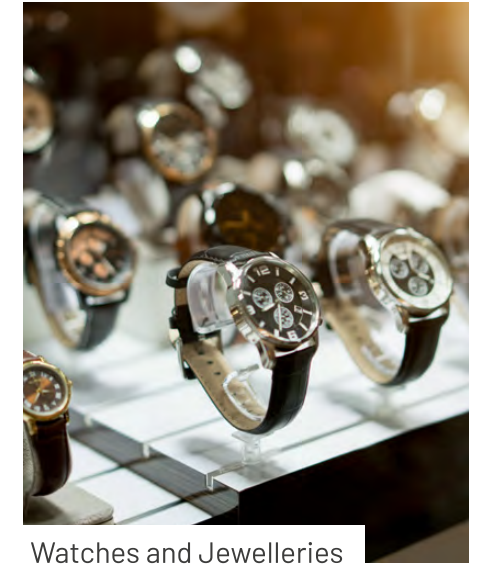
Application Examples



Stainless Steel Fronts



Flat Part Deburring



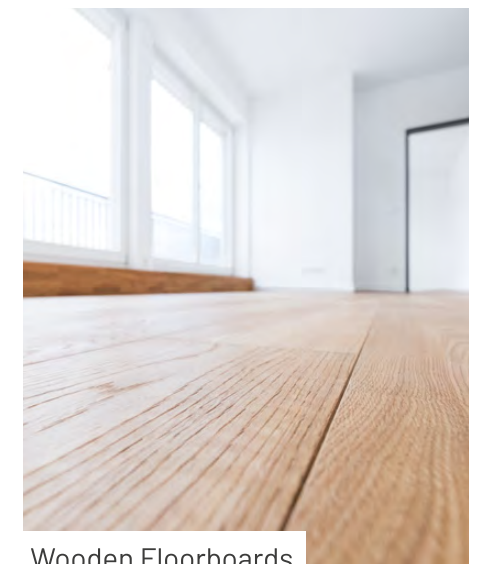
Watches and Jewelleries



Surgical Instruments



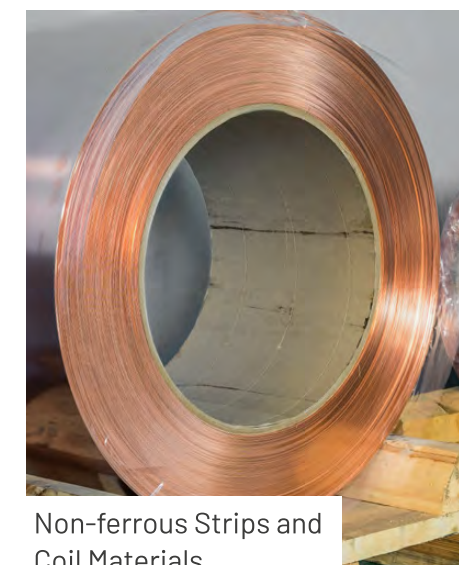
Kitchen Apertures



Wooden Floorboards



Stamped Parts



Non-ferrous Strips and
Coil Materials



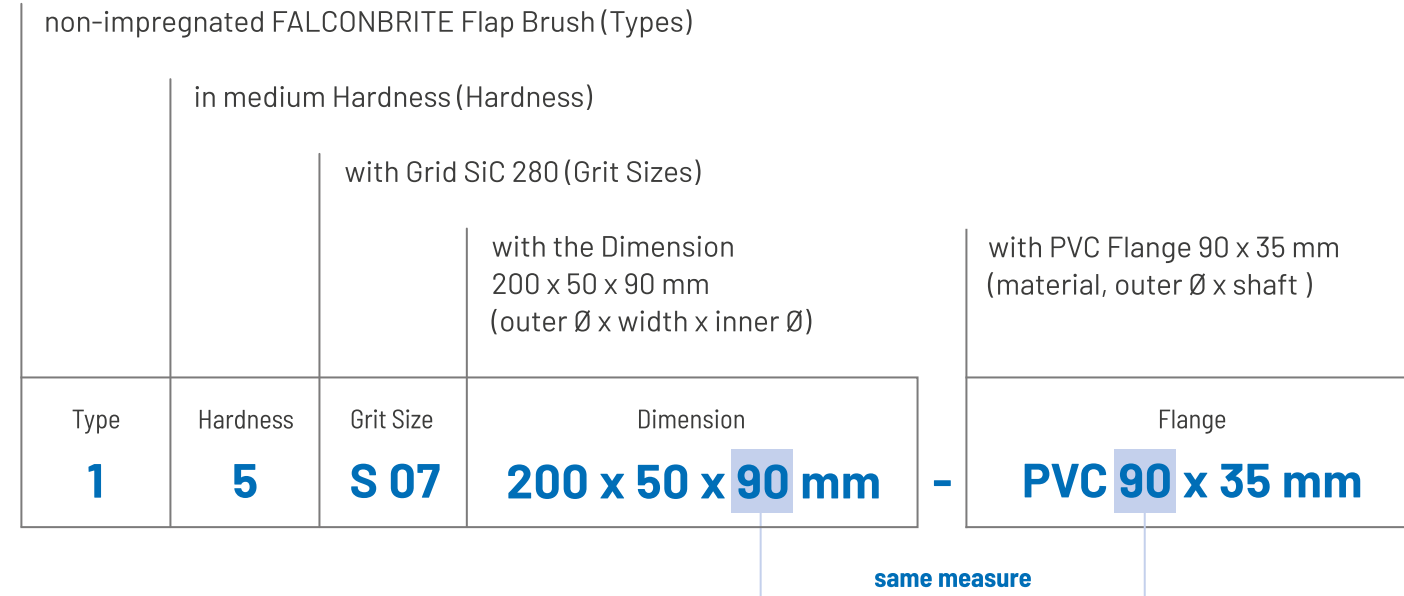
Cleaning

Product Coding

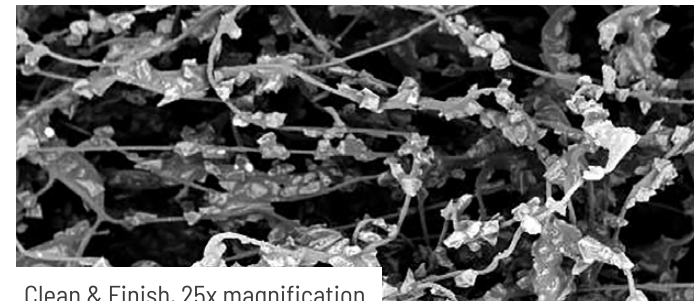
We would be happy to advise you on your inquiry and order

We manufacture almost every product according to customer requirements. If you need dimensions other than the standard sizes specified in the table or solutions for special areas of application, our sales team is at your disposal to offer you professional advice.

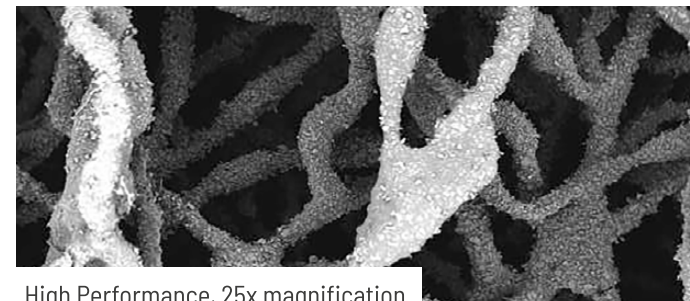
Example: You are looking for a



Grit Sizes



Clean & Finish, 25x magnification



High Performance, 25x magnification

Grit Size according to FEPA	Type of Grain	Description	Aluminium Oxide Al ₂ O ₃		Silicon Carbide SiC		Flint
			Clean & Finish	High Performance	Clean & Finish	High Performance	
36	FBS	strip	-	-	-	CS 02	-
80	CRS	coarse	A 03	C 03	S 03	-	-
100	MED	medium	A 04	C 04	S 04	-	-
120	MDF	medium fine	A 05	-	-	-	-
180	FIN	fine	A 06	C 06	S 06	-	-
280	VFN	very fine	A 07	C 07	S 07	CS 07	-
500	SFN	super fine	-	-	S 08	-	T 08
800	UFN	ultra fine	-	-	S 09	CS 09	-
1000	XFN	extra fine	A 12	-	S 10	-	-
1500	XXFN	extreme extra fine	A 15	-	S 15	-	-

Types

			Hardness (relative hardness)							
			Impregnation	extra soft	soft	medium	hard	harder	very hard	extra hard
1		FALCONBRITE Flap Non-impregnated	-	2	3	4	5	6	7	8
2		FALCONBRITE Flap PU-impregnated	PU-Standard PU-Longlife	2	3	4	5	6	7	8
3		FALCONBRITE Convolute PU-impregnated	PU-Standard PU-Longlife	-	-	-	5	6	7	8
4		FALCONBRITE Disc PU-impregnated	PU-Standard PU-Longlife	-	3	-	-	6	-	-
5		FALCONBRITE Flap Liquid-impregnated	LIQ-Standard LIQ-Longlife	-	3	4	5	6	7	8
6		FALCONBRITE Convolute Liquid-impregnated	LIQ-Standard LIQ-Longlife	-	3	-	5	6	7	8

Standard Dimensions in Millimetres

Outer Ø	Width	Inner Ø						
		35	45	50,8	76,2	90	100	146,5
90	10 - 2000	35	-	-	-	-	-	-
100	10 - 2000	35	45	-	-	-	-	-
110	10 - 2000	35	45	-	-	-	-	-
115	10 - 2000	35	45	-	-	-	-	-
125	10 - 2000	50	50,8	-	-	-	-	-
150	10 - 2000	50	50,8	76,2	-	-	-	-
200	10 - 2100	76,2	90	100	-	-	-	-
250	10 - 2100	117	127	-	-	-	-	-
300	10 - 2100	127	140	146,5	150	170	-	-
350	10 - 2100	190	200	203	220	230	-	-
400	10 - 2600	240	250	254	270	-	-	-
450	10 - 2100	240	250	254	270	330	340	-
500	10 - 2100	330	340	-	-	-	-	-

Standard Dimensions in Inches

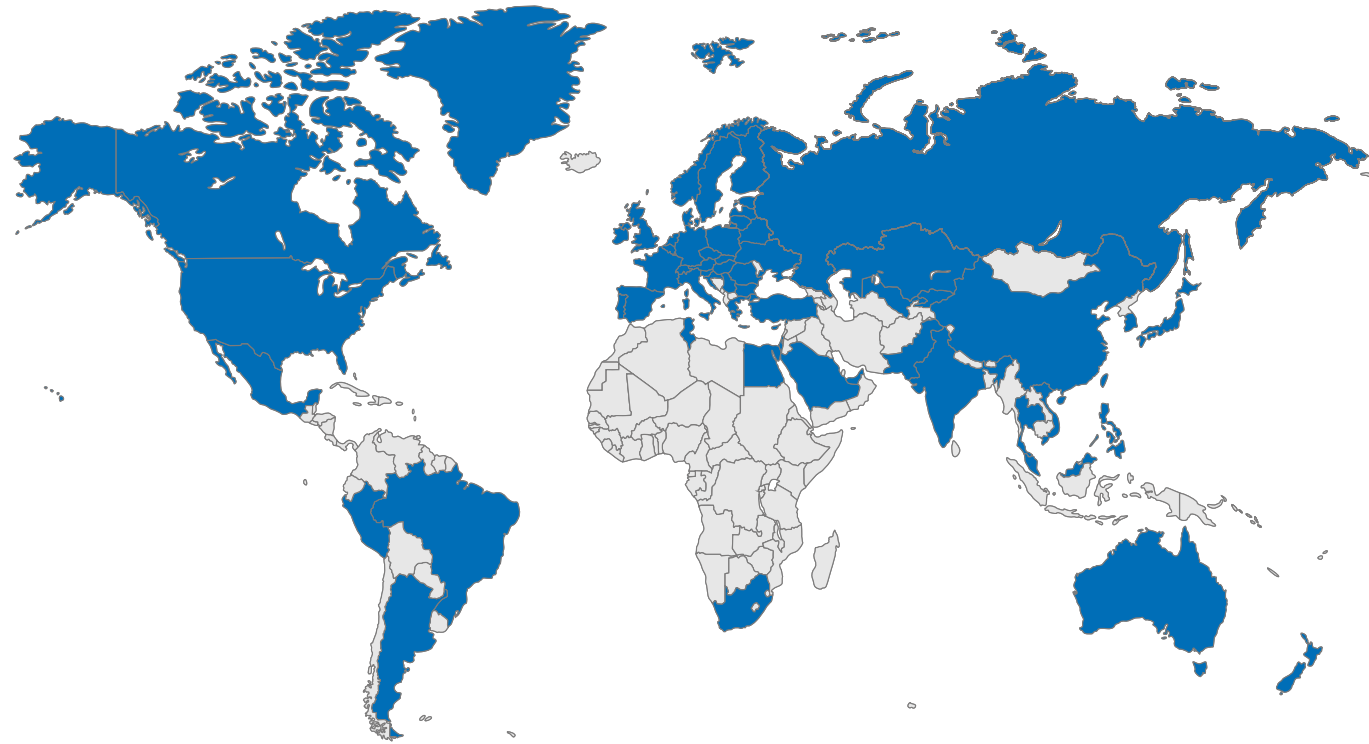
Outer Ø	Width	Inner Ø						
		1,38	1,77	2	3	4	5,75	5,9
3,5	4 - 78	1,38	-	-	-	-	-	-
4	4 - 78	1,38	1,77	-	-	-	-	-
4,33	4 - 78	1,38	1,77	-	-	-	-	-
4,5	4 - 78	1,38	1,77	-	-	-	-	-
5	4 - 78	1,96	2	-	-	-	-	-
6	4 - 78	1,96	2	3	-	-	-	-
8	4 - 82	3	3,5	4	-	-	-	-
10	4 - 82	4,6	5	-	-	-	-	-
12	4 - 82	5	5,5	5,75	5,9	6,7	-	-
13,75	4 - 82	7,5	7,9	8	8,66	9	-	-
15,75	4 - 100	9,44	9,85	10	10,6	-	-	-
17,75	4 - 82	9,44	9,85	10	10,6	13	13,4	-
20	4 - 82	13	13,4	-	-	-	-	-

Flange

Flanges in all sizes made of [aluminium](#), [steel](#), [stainless steel](#), [PVC](#), [cork](#) and [MDF](#) (also according to drawing).



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