



**FALKENRICH**  
FALCONBRITE ABRASIVES™

# Surface Technology

Deburring · Cleaning · Finishing



Quality & Reliability  
Made in Germany



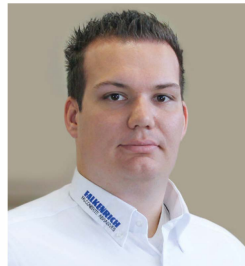
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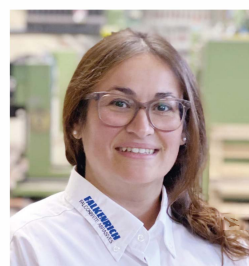


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## Your Specialist for perfect Surfaces

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<br><b>1</b> |  |  | <b>FALCONBRITE Flap</b><br>Non-impregnated |
|------------------|---|---|--|



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<br>soft | <b>soft*</b> | medium   | <b>hard*</b> | harder   | <b>very<br/>hard*</b> | extra<br>hard |
| Hardness | <b>2</b>      | <b>3</b>     | <b>4</b> | <b>5</b>     | <b>6</b> | <b>7</b>              | <b>8</b>      |



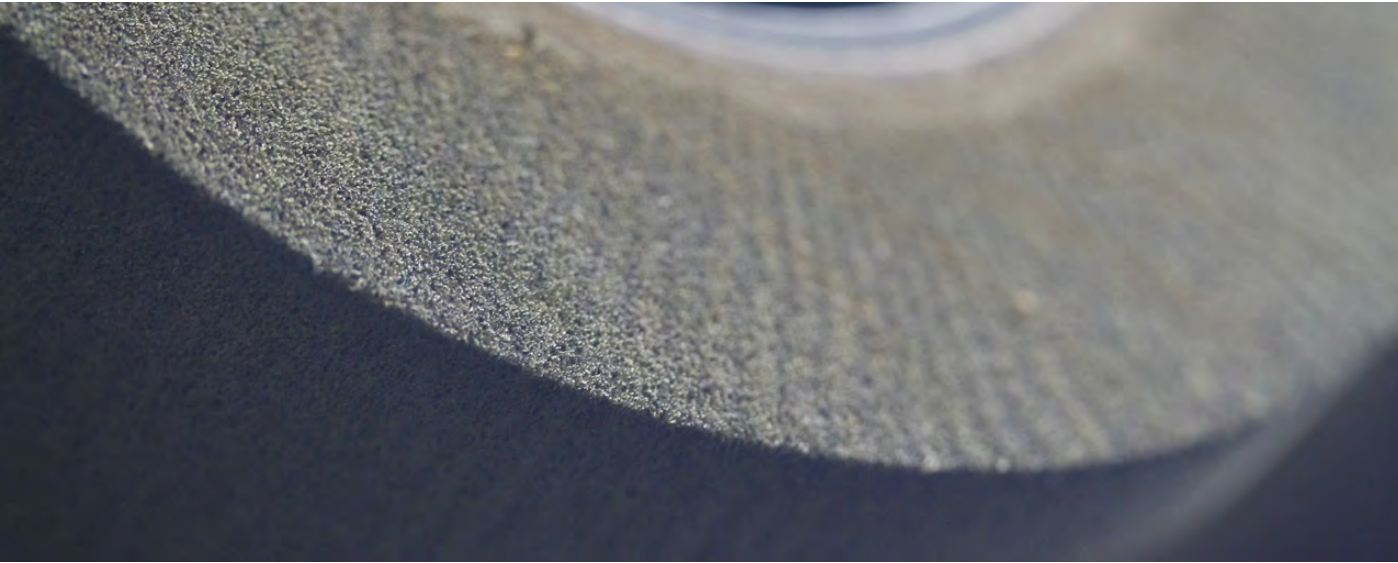
Applications

- 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     |  |  | <b>FALCONBRITE Flap</b><br>PU-impregnated |
| <b>2</b> |   |   |   |



Product Features

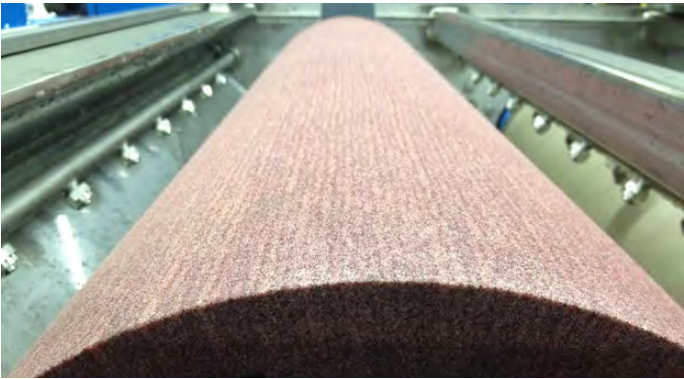
- Star-shaped grouping FALCONBRITE
- Various hardnesses
- Various degrees of grit size and various grain types
- Temperature resistant duroplast impregnation
- Also available as longlife impregnation
- Flexibility adjustable
- High edge stability
- Reproducible surfaces
- Balanced

Applications

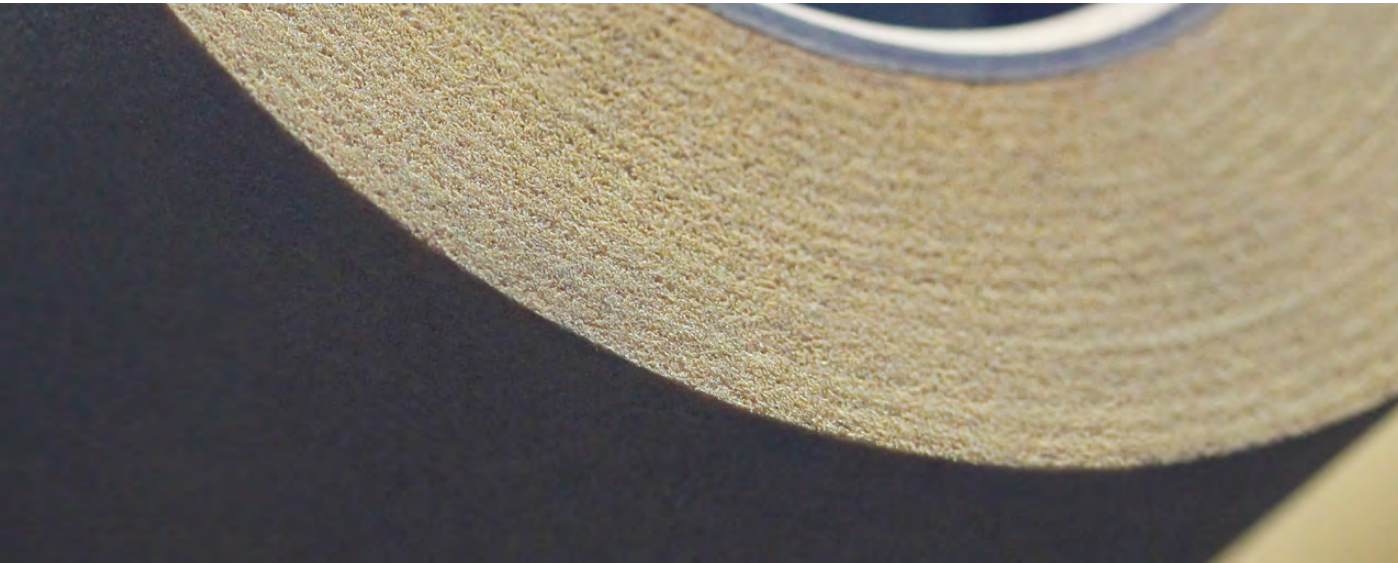
- Effective removal of corrosion, burrs, dirt
- Decorative, even surface finish with a defined roughness depth, e.g. stainless steel, copper and brass
- Removal of punching and firing burrs with defined edge rounding
- Matting and satinizing various metal and plastic parts
- Descaling flame cuts
- Finishing

|          |            |          |          |      |          |           |            |
|----------|------------|----------|----------|------|----------|-----------|------------|
|          | extra soft | soft*    | medium*  | hard | harder*  | very hard | extra hard |
| Hardness | <b>2</b>   | <b>3</b> | <b>4</b> | -    | <b>6</b> | <b>7</b>  | <b>8</b>   |

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.



|          |   |   |  |
|----------|---|---|--|
| Type     |  |  | <b>FALCONBRITE Convolute</b><br>PU-impregnated |
| <b>3</b> |   |   |  |



Product Features

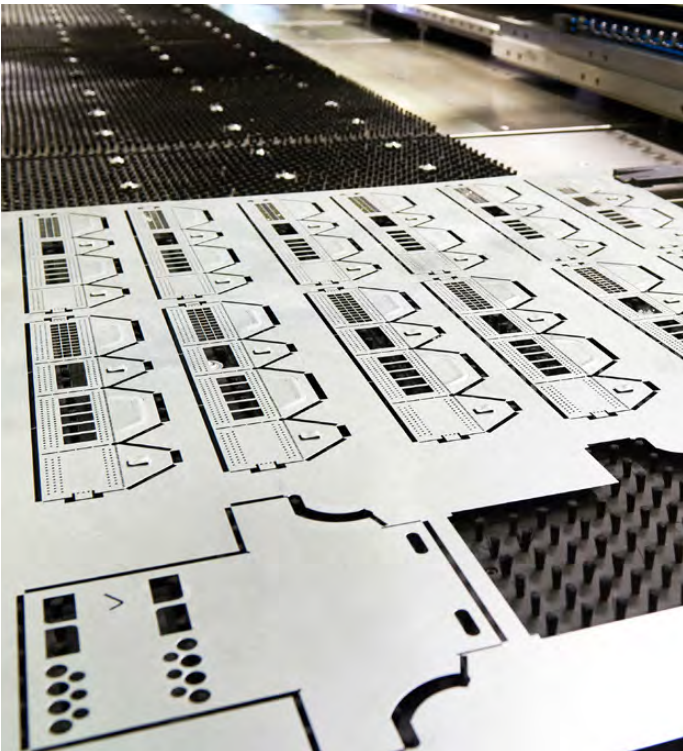
- Spiral wound brushes FALCONBRITE
- Various hardnesses
- Various degrees of grit size and various grain types
- Temperature resistant duroplast impregnation
- Also available as longlife impregnation
- Flexibility adjustable
- Constant hardness
- High edge stability
- Balanced

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 | -          | -    | -      | <b>5</b> | <b>6</b> | <b>7</b>  | <b>8</b>   |

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.





|                  |   |   |   |
|------------------|---|---|---|
| Type<br><b>4</b> |  |  | <b>FALCONBRITE Disc</b><br>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 | <b>harder*</b> | very hard | extra hard |
| Hardness | -          | <b>3</b> | -      | -    | <b>6</b>       | -         | -          |

|                  |   |   |   |
|------------------|---|---|---|
| Type<br><b>5</b> |  |  | <b>FALCONBRITE Flap</b><br>Liquid-impregnated |
|------------------|---|---|---|

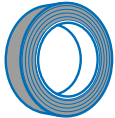
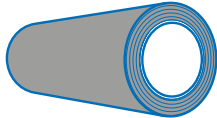
Product Features

- 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 | <b>soft*</b> | medium   | hard     | <b>harder*</b> | very hard | extra hard |
| Hardness | -          | <b>3</b>     | <b>4</b> | <b>5</b> | <b>6</b>       | <b>7</b>  | <b>8</b>   |

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<br><b>6</b> |  |  | <b>FALCONBRITE Convolute</b><br>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     | <b>harder*</b> | very hard | extra hard |
| Hardness | -          | <b>3</b> | -      | <b>5</b> | <b>6</b>       | <b>7</b>  | <b>8</b>   |

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



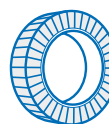


## BIAS MOPS

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

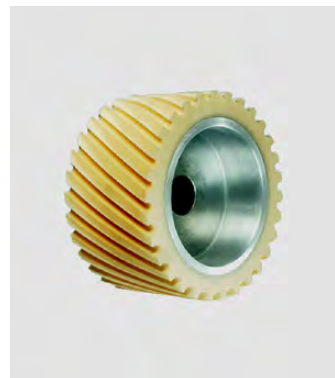
Machine Applications

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



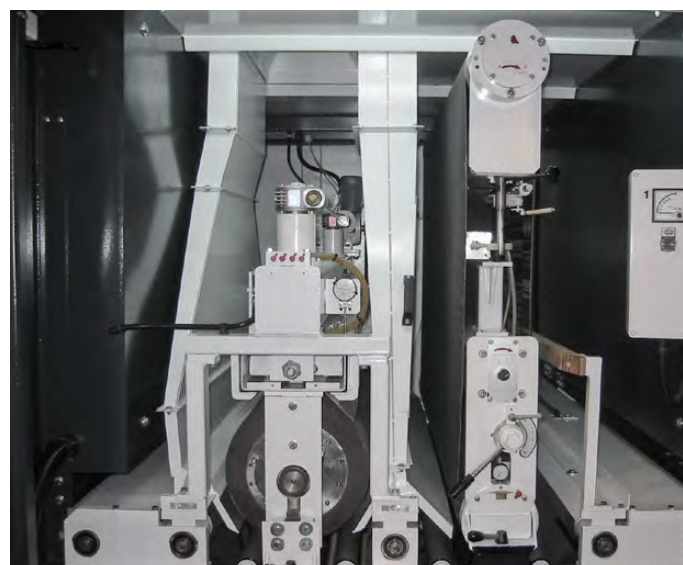


## Further Products



## 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)



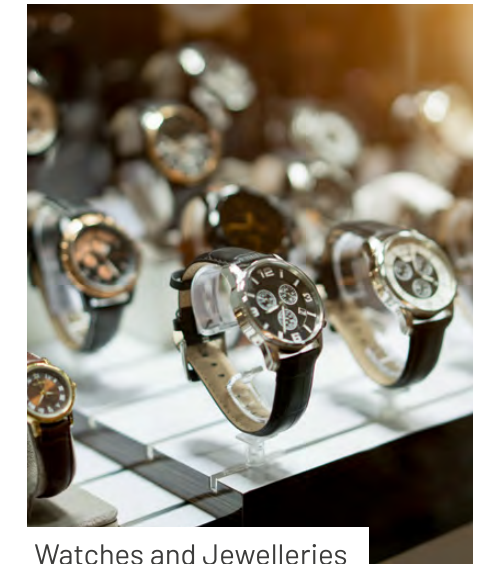
## Application Examples



Stainless Steel Fronts



Flat Part Deburring



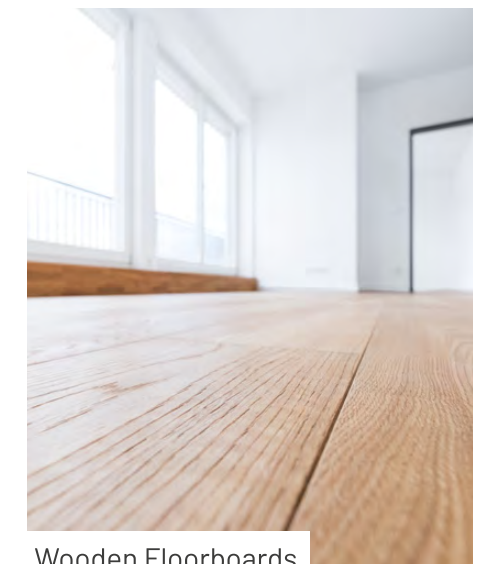
Watches and Jewelleries



Surgical Instruments



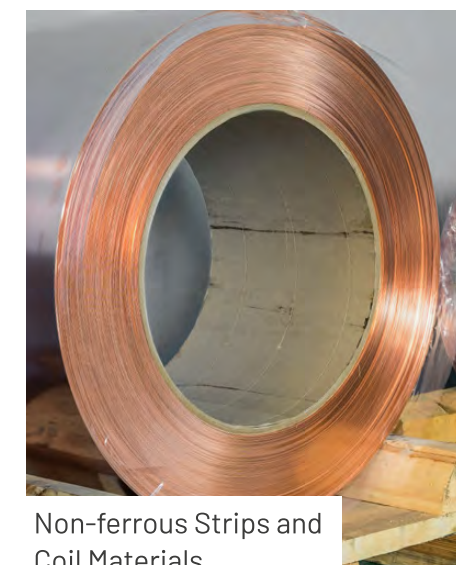
Kitchen Apertures



Wooden Floorboards



Stamped Parts



Non-ferrous Strips and  
Coil Materials



Cleaning



Product Coding

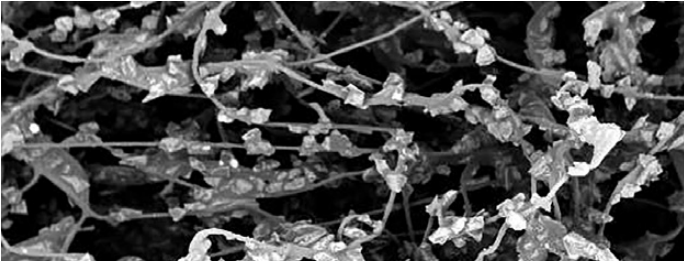
We would be happy to advise you on your inquiry and order

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.

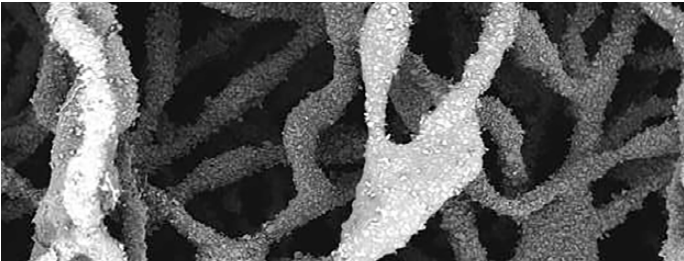
Example: You are looking for a

|   |          |           |                  |                |
|---|----------|-----------|------------------|----------------|
| non-impregnated FALCONBRITE Flap Brush (Types)                  |          |           |                  |                |
| in medium Hardness (Hardness)                                   |          |           |                  |                |
| with Grid SiC 280 (Grit Sizes)                                  |          |           |                  |                |
| with the Dimension 200 x 50 x 90 mm (outer Ø x width x inner Ø) |          |           |                  |                |
| with PVC Flange 90 x 35 mm (material, outer Ø x shaft )         |          |           |                  |                |
| Type  | Hardness | Grit Size | Dimension        | Flange         |
| 1   | 5        | S 07      | 200 x 50 x 90 mm | PVC 90 x 35 mm |
|   |          |           | same measure     |                |

Grit Sizes



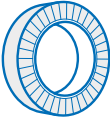
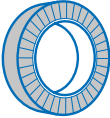

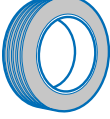
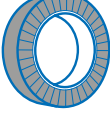
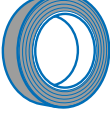
Clean & Finish, 25x magnification



High Performance, 25x magnification

| Grit Size according to FEPA |      | Type of Grain      | Aluminium Oxide Al <sub>2</sub> O <sub>3</sub> |                  | Silicon Carbide SiC |                  | Flint          |
|-----------------------------|------|--------------------|--|------------------|---------------------|------------------|----------------|
|                             |      |                    | Clean & Finish                                 | High Performance | Clean & Finish      | High Performance | Clean & Finish |
| 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

|   |  |  | Impregnation                 | extra soft | soft | medium | hard | harder | very hard | extra hard |
|---|--|--|------------------------------|------------|------|--------|------|--------|-----------|------------|
| 1 |   | <b>FALCONBRITE Flap</b><br>Non-impregnated         | –                            | 2          | 3    | 4      | 5    | 6      | 7         | 8          |
| 2 |   | <b>FALCONBRITE Flap</b><br>PU-impregnated          | PU-Standard<br>PU-Longlife   | 2          | 3    | 4      | 5    | 6      | 7         | 8          |
| 3 |   | <b>FALCONBRITE Convolute</b><br>PU-impregnated     | PU-Standard<br>PU-Longlife   | –          | –    | –      | 5    | 6      | 7         | 8          |
| 4 |   | <b>FALCONBRITE Disc</b><br>PU-impregnated          | PU-Standard<br>PU-Longlife   | –          | 3    | –      | –    | 6      | –         | –          |
| 5 |   | <b>FALCONBRITE Flap</b><br>Liquid-impregnated      | LIQ-Standard<br>LIQ-Longlife | –          | 3    | 4      | 5    | 6      | 7         | 8          |
| 6 |  | <b>FALCONBRITE Convolute</b><br>Liquid-impregnated | LIQ-Standard<br>LIQ-Longlife | –          | 3    | –      | 5    | 6      | 7         | 8          |

Standard Dimensions in Millimetres

| Outer Ø | Width     | Inner Ø |      |       |     |     |     |
|---------|-----------|---------|------|-------|-----|-----|-----|
| 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 |      |      |      |     |      |
|---------|---------|---------|------|------|------|-----|------|
| 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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