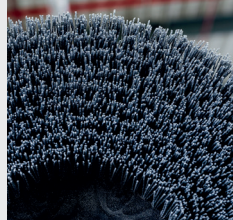


# Technical Brush Filaments



## Abrasive Range



### Perlon® – The Filament Company

Perlon® - The Filament Company - is an innovative and global group of companies specialising in the production of synthetic filaments. We produce at sites in Germany, Poland, China, India and the USA. We offer an extremely diverse product portfolio for almost every technical application. We are constantly creating new solutions for unique products - Our Engineering. Your success.

### The world's broadest range of abrasive filaments

We manufacture the world's largest and most diverse range of abrasive filaments for applications requiring abrasive performance. Years of continuous product development have led to the creation of a portfolio of products made from 4 high quality engineering polymers, 4 abrasive grit types, and marketed under 5 main brands. Our abrasive filaments are recognized throughout the technical brush and tool sector for their accurate diameter control, even grit dispersion, aggressiveness and lifetime. Our standard range available from stock incorporates over 70 different products.

### Our brands

#### Hahlbrasif®

Our range of PA 6 based products for use in dry applications such as wood processing. Available from grit 36 to grit 500.

#### Abralon®

The original range of Hahl abrasive products made from PA 6.10 and PA 6.12. Abralon® is a long lasting filament, which possesses excellent stiffness and bend recovery properties, as well as resistance to alkaline solutions. The low moisture absorption properties of PA 6.10 and PA 6.12 enable Abralon® filaments to be used in both wet and dry applications with minimal loss of stiffness.

Available from grit 24 to grit 3500.

# Technical Brush Filaments

## Abrasive Range

### **Abrafil®**

Abrafil® has a higher bending stiffness than Abralon® and thus a higher initial abrasive performance. Made from high quality PA 6.12 raw material and other stabilizers, Abrafil® is commonly used in applications with shorter brushing cycles. Available from grit 24 to grit 3500.

### **Abrafil® NG**

NG stands for Next Generation. Abrafil® NG is a further step up in stiffness from Abralon® and Abrafil® and through the addition of advanced stabilising additives offers users longer lasting abrasive performance with the benefit of heat stability. Abrafil® NG is predominantly used in brushes for deburring alloy wheels. Available from grit 36 to grit 1000.

### **AbraMaXX®**

AbraMaXX® filaments (biobased 70%) are manufactured from a newly developed high temperature polyamide thermoplastic and abrasive grit. This optimized recipe of raw materials and other additives delivers strength and bending stiffness not previously seen in standard abrasive polyamide filaments and more importantly an increase in lifetime under extreme working conditions. Available from grit 36 to grit 3500.



## Grit Types

### **Silicon Carbide (SiC)**

- Grit size: Grit 36 – 1000
- Standard grit load: K24 – K46 25 %; K60 – K320 30 %; K500 > 23 – 25 %
- Properties: grey colour, sharp edged, aggressive, low cost, wears evenly
- Typical applications: metal deburring and surface finishing, stone processing, textile processing, floor care

### **Aluminium Oxide (AO)**

- Grit size: Grit 80 – 1000
- Standard grit load: K80 – K320 30 %; K500 > 23 – 25 %
- Properties: light cream colour, less aggressive, low cost
- Typical applications: steel and copper polishing, DIY tools

### **Ceramic (KK)**

- Grit size: Grit 36 – 1000
- Standard grit load: K36 – K46 25 %; K60 – K320 30 %; K500 > 23 – 25 %
- Properties: light cream colour, very sharp edged, self-sharpening, aggressive, irregular break pattern
- Typical applications: textile and fabric structuring, finer surface finishing, hard metal deburring

### **Diamond (DM)**

- Grit size: Grit 35 – 3500
- Standard grit load: 5 – 30 % depending on application
- Properties: light colour, very aggressive, heat stable, high cost
- Typical applications: hard stone and granite deburring, hard metal deburring

This product information has been compiled to the best of our knowledge and with the greatest of care. We cannot, however, assume any liability for the accuracy, integrity or timeliness of its content. The technical parameters and the behaviour of the filament can vary depending on diameter and production technique.