CLEAN PROCESSES - CONTINUOUSLY

Filtration Group BV - Filter Cartridges

(Process Engineering, Chemical Industries, Oil & Gas, Food & Beverages)
THE TOTAL FILTRATION APPROACH

Filtration Group has an extensive product range. Filter components like, filter elements, cartridges – bags and sheets, filter housings and modules to large system installations. Tell us your application and we will advise which product would fit best to support your application.

MAHLE Industrial Filtration

MAHLE Industrial Filtration specialized in the cleaning and processing of industrial oils and lubricants as well as air and water. With its extensive application expertise, in-house research and development, technology center, laboratory, and design department, it offered its customers tailor-made filter components and process engineering solutions.

The original Amafilter and LFC products were sold under the MAHLE brand name.

In 2016 Filtration Group Corporation closed the acquisition of the industrial filtration business of MAHLE GmbH. The acquisition adds filtration capabilities in industrial filtration across a variety of applications including industrial air filtration, process filtration, hydraulics, fuel separation and replacement elements.

This acquisition gives customers more choice and flexibility in how they can utilize filtration to make their environments cleaner, safer and more productive.

An organization’s ability to learn, and translate that learning into action rapidly, is the ultimate competitive advantage. — Jack Welch
COMPETENCIES

YOUR PARTNER IN FILTRATION

We understand our customer’s increasingly demanding and complex process and environmental requirements. Drawing from one of the industry’s broadest in-house technology bases, our market specialists and engineering teams are able to design a total filtration solution for our customers.

AVAILABLE WORLDWIDE

Filtration Group offers a complete range of products, services and support for filtration and separation technologies on a global basis. Globally positioned with production facilities and regional sales offices in Europe, USA and Asia.

WELL EXPERIENCED

Filtration Group supports direct sales and a large network of distributors and agents. The group’s capabilities are backed by decades of innovative experience in providing filtration solutions to a broad range of industries.

CONTINUOUS IMPROVEMENTS

Filtration Group continues to develop products, enabling its customers to comply with strictest environmental regulations, industry demands and increasing complexity. In short, Filtration Group has a solution for your filtration application.

FINDING SOLUTIONS

We believe in partnering with our customers to provide total filtration solutions throughout the life of your filters. Our team of experts can help to optimize your filtration process and streamline your efficiency. Streamline your efficiency for a better TCO.

GIVING SUPPORT

We offer design, testing, commissioning and service together with customer support. We also offer service for auditing, troubleshooting and preventative maintenance on-site.

ONE STOP SHOP

Our service department has unique experience in filtration processes and equipment. We are able to offer comprehensive maintenance. We also supply filter spares, elements, leaves and equipment upgrades.
CARTRIDGE FAMILY

amaTech

The amaTech premium wound filter cartridges represent the state of the art in wound depth filtration technology. amaTech premium wound filter cartridges are manufactured under strict quality procedures. Each batch is tested on weight, length and air permeability, ensuring that each cartridge has the same high quality. Because of the state of the art technology used in manufacturing the filter cartridges, the amaTech premium wound filter cartridges offer a highly effective depth filtration.

MAIN FEATURES

- Effective depth filtration at an economically price
- Nominal filtrations
- Different micron ratings and length

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>amaTech CW</td>
<td>0.5 – 150</td>
<td>5 – 40</td>
<td>145</td>
<td>Bleached cotton</td>
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<td>amaTech UW</td>
<td>0.5 – 150</td>
<td>5 – 40</td>
<td>90</td>
<td>Polypropylene</td>
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<tr>
<td>amaTech GW</td>
<td>0.5 – 150</td>
<td>5 – 40</td>
<td>400</td>
<td>Baked Glass fibre</td>
</tr>
<tr>
<td>amaTech NW</td>
<td>0.5 – 150</td>
<td>5 – 40</td>
<td>120</td>
<td>Nylon</td>
</tr>
<tr>
<td>amaTech EW</td>
<td>0.5 – 150</td>
<td>5 – 40</td>
<td>120</td>
<td>Polyester</td>
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More information is available in the product serie datasheet.
amaPure filtration is a depth filtration. The unique, one-step melt blown process is used to create a graded density which improves flow characteristics and increases dirt holding capacity when compared to other polypropylene cartridges. The process thermally bonds the fibers together virtually eliminating media migration. Thermal bonding also eliminates the need for a separate centre core, providing both high collapse strength and enabling easy disposal through incineration. The amaPure is manufactured using strict standards creating a high quality melt blown filter cartridge.

**Main Features**
- Wide chemical compatibility
- High dirt holding capacity
- Steamable in-situ
- Sanitisable with hot water
- No media migration

**Applications**
- Food and beverage
- Water processes

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<thead>
<tr>
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<tbody>
<tr>
<td>amaPure HS</td>
<td>1 – 100</td>
<td>9.75 – 40</td>
<td>80</td>
<td>Polypropylene</td>
</tr>
<tr>
<td>amaPure FS</td>
<td>0.5 – 75</td>
<td>4 – 40</td>
<td>80</td>
<td>Polypropylene</td>
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<td>amaPure TS</td>
<td>0.3 – 90</td>
<td>10 – 40</td>
<td>80</td>
<td>Polypropylene</td>
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</table>

More information is available in the product serie datasheet.
CARTRIDGE FAMILY

amaBond

The amaBond cartridge is especially designed for higher viscous fluids like resins, inks and paint. The amaBond can filter liquids with viscosity up to 3,000 centipoise. Depending on the process conditions even higher viscosity fluids can be filtered. The one piece construction eliminates the possibility of breaking or liquid bypass at the joints.

The special design and material used allows for filtration at higher temperatures and high pressure resistance. The amaBond offers the most economical filtration of high viscosity liquids.

MAIN FEATURES

- Viscous fluid filtration
- One piece construction
- No center core
- Economically attractive solution
- No liquid by-pass

APPLICATIONS

- Paints
- Resin
- Inks
- Coatings
- Adhesives

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<tr>
<td>amaBond LR</td>
<td>2 – 125</td>
<td>9.75 – 40</td>
<td>120</td>
<td>DOE</td>
<td>3,000</td>
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<tr>
<td>amaBond BR</td>
<td>3 – 200</td>
<td>9.75 – 40</td>
<td>80</td>
<td>DOE</td>
<td>10,000</td>
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</tbody>
</table>

More information is available in the product serie datasheet.
CARTRIDGE FAMILY

amaCarb

The general use of activated carbon cartridges is to remove taste, odour and colour from water and other liquids, air and gases. The amaCarb filter cartridge can be granular activated carbon, porous block activated carbon or impregnated cellulose with carbon. The amaCarb is an excellent cartridge to reduce chlorine, taste, odour, colour and organics in water. One can also use these cartridges to reduce organics, taste, odour, colour and oil vapour in air and other gas applications.

MAIN FEATURES

- Reduces chlorine, taste, odour, colour, organics and oil vapour
- Economical solution
- Nominal filtration

APPLICATIONS

- Soft drinks
- Potable water
- Organic removal

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<tr>
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<tbody>
<tr>
<td>amaCarb AN-G</td>
<td>9.75 – 20</td>
<td>80</td>
<td>Polypropylene HDPE</td>
<td>The end-cap is X4 with Buna-N gasket</td>
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<tr>
<td>amaCarb AN-P</td>
<td>9.75 – 20</td>
<td>80</td>
<td>Polypropylene Polyethylene</td>
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<tr>
<td>amaCarb AN-B</td>
<td>9.75 – 20</td>
<td>50</td>
<td>Polyester Vinyl plasticol</td>
<td>The end-cap is X4 with Buna-N gasket</td>
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<tr>
<td>amaCarb AS-B</td>
<td>9.75 – 10</td>
<td>60</td>
<td>Polyester Polypropylene</td>
<td>The end-cap is X4 with Buna-N gasket</td>
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</table>

More information is available in the product serie datasheet.
CARTRIDGE FAMILY

amaLloy

amaLloy metal filter cartridges are designed for the most extreme operating conditions like high temperatures or chemicals. The completely welded 316L stainless steel amaLloy is available in a pleated or cylindrical construction. Together with the different media types, the amaLloy offers you excellent performance in most extreme applications. The amaLloy is not only suitable for liquids but can also be used for many gas applications.

MAIN FEATURES

- High pressure differential
- Highly chemical compatibility
- Resistance to high temperatures
- Completely welded
- Variety of end caps
- No extractables

<table>
<thead>
<tr>
<th>Product serie</th>
<th>Micron rating [µm]</th>
<th>Length [inch]</th>
<th>Configuration</th>
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</thead>
<tbody>
<tr>
<td>amaLloy CA</td>
<td>3 – 60</td>
<td>10 – 40</td>
<td>Cylindrical fibre</td>
</tr>
<tr>
<td>amaLloy FA</td>
<td>3 – 60</td>
<td>10 – 40</td>
<td>Pleated fibre</td>
</tr>
<tr>
<td>amaLloy LA</td>
<td>10 – 840</td>
<td>10 – 40</td>
<td>Cylindrical mesh</td>
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<tr>
<td>amaLloy MA</td>
<td>10 – 840</td>
<td>10 – 40</td>
<td>Pleated mesh</td>
</tr>
<tr>
<td>amaLloy PA</td>
<td>6 – 60</td>
<td>10 – 40</td>
<td>Cylindrical powder</td>
</tr>
</tbody>
</table>

More information is available in the product serie datasheet.
The amaGuard are pleated filter cartridges manufactured from polypropylene or micro glass fiber and are the result of years of experience in manufacturing filter cartridges. State of the art technology is used in manufacturing the filter cartridges. The amaGuard offers highly effective surface filtration at a competitive price.

Main Features
- Surface filtration
- Wide chemical compatibility
- > 99.9% efficiency from 1 to 80 micron

Applications
- R.O. pre-filtration
- Food and Beverage
- Offshore
- General chemicals

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<tbody>
<tr>
<td>amaGuard TP</td>
<td>0.2 – 30</td>
<td>4 – 40</td>
<td>80</td>
<td>Polypropylene</td>
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<td>amaGuard DP</td>
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<td>4 – 40</td>
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<td>amaGuard HF-PP</td>
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<td>amaGuard FP</td>
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<tr>
<td>amaGuard GP</td>
<td>0.45 – 50</td>
<td>10 – 40</td>
<td>65 – 120</td>
<td>Polypropylene/ stainless steel</td>
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</table>

More information is available in the product serie datasheet.
CARTRIDGE FAMILY

amaFine

The amaFine cartridge is specially designed with either polyethersulphone or polysulphone membrane. The configuration and the protection of the sterile zone against mechanical damage are perfectly combined in a design to allow the filter cartridge with a high degree of integrity. To reduce the possibility of contaminating your product the amaFine can function as a vent filter to protect the product from viruses and micro-organisms.

MAIN FEATURES

- Protection of sterile zone
- Configuration for effective filtration area
- Absolute filtration

APPLICATIONS

- R.O. pre-filtration
- Demineralized water
- Wine and Beer industry
- Food and Beverage
- General chemical

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<tbody>
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<td>amaFine BC</td>
<td>0.1 – 0.65</td>
<td>10 – 40</td>
<td>65</td>
<td>Polyethersulphone</td>
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<td>amaFine VM</td>
<td>0.45 – 1.2</td>
<td>10 – 40</td>
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<td>amaFine WM</td>
<td>0.05 – 1.2</td>
<td>9.75 – 40</td>
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<td>amaFine TMV</td>
<td>0.2</td>
<td>10 – 40</td>
<td>65</td>
<td>PTFE</td>
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More information is available in the product serie datasheet.
CARTRIDGE FAMILY

End Caps

X0: DOE

X7

X3

X8

X4

X9

X5
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