

# Filter media

## FMR



### For high dust concentrations or as a prefilter for fine dust filters

Filter media for the separation of coarse and fine dust in supply and extract air for simple applications

- Filter groups ISO Coarse (coarse dust filter) and ISO ePM10 (fine dust filter)
- Tested to ISO 16890

|                     |   |            |   |
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## General information

### Application

- Roll media for the separation of coarse and fine dust in ventilation systems.

### Nominal sizes

- B × L [mm]

### Filter classes

#### Filter groups

- ISO Coarse acc. to ISO 16890
- ISO ePM10 acc. to ISO 16890

#### Filter classes

- Coarse 35 % (C04)
- Coarse 45 % (C58)
- Coarse 45 % (C15)
- Coarse 50 % (C11, G02)
- Coarse 60 % (C13)
- ePM10 55 % (C06)

### Construction features

- Glass fibre filter media sprayed with dust binding agent, resulting in increased separation efficiency and preventing dust carry over

### Material and surfaces

- Filter media made of glass fibres or chemical fibres

### Standards and guidelines

- Tested according to ISO 16890; international standard for general ventilation and air conditioning; classification of separation efficiency based on the measured fractional separation efficiency, which is processed into a reporting system for the fine dust separation efficiency (ePM)
- For coarse dust filters, the gravimetric separation efficiency is measured with synthetic dust
- The filters are classified into filter group ISO Coarse depending on the tested values
- For fine dust filters, the fractional separation efficiency of a certain size range is determined by aerosols (DEHS and KCl)
- The filters are classified into filter groups ISO ePM10, ISO ePM2.5 and ISO ePM1 depending on the tested values



## Technical data

| Media type  | G02 | C04 | C06 | C11 | C13 | C15 | C58 |
|---|-----|-----|-----|-----|-----|-----|-----|
| gravimetric separation efficiency Coarse [%] according to ISO 16890 | 50  | 35  | -   | 50  | 60  | 45  | 45  |
| Fractional efficiency ePM10 [%] to ISO 16890                        | -   | -   | 55  | -   | -   | -   | -   |
| Filter strength [mm]  | 50  | 14  | 22  | 20  | 8   | 20  | 8   |
| Nominal face velocity [m/s]   | 0.9 | 1.5 | 0.9 | 1.5 | 1.5 | 1.5 | 0.9 |
| Initial differential pressure [Pa] at nominal volume flow rate      | 10  | 30  | 90  | 60  | 50  | 40  | 10  |
| Max. operating temperature [°C]                                     | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

## Specification text

This specification text describes the general characteristics of the product. Texts for variants can be generated with our Easy Product Finder design programme.

### Specification text

Roll media for the separation of coarse and fine dust in ventilation systems. Rolls available in standard sizes, filter groups ISO Coarse and ISO ePM10 according to ISO 16890. Glass fibre filter media are wetted with a dust binding agent, which increases the degree of separation and prevents dust from being blown away.

### Materials and surfaces

- Filter media made of glass fibres or chemical fibres

### Sizing data

- Filter group [ISO 16890]
- Separation efficiency [%]
- Volume flow rate [m<sup>3</sup>/h]
- Initial differential pressure [Pa]
- Nominal size [mm]



Order code

FMR – Coarse – 50 % – G02 / 2000 × 20000

1 2 3 4 5

1 Type

FMR Roll media

2 Classification

Coarse gravimetric separation efficiency according to ISO 16890

ePM10 Fractional efficiency ePM10 according to ISO 16890

3 Separation efficiency

Specify separation efficiency [%] according to ISO 16890

4 Media type

Order example: FMR-Coarse-50%-G02/2000×20000

Type

Classification

Separation efficiency

Media type

Nominal size [mm]

G02 Glass fibre medium, 50 mm thick

C04 Chemical fibre medium, 14 mm thick

C06 Chemical fibre medium, 22 mm thick

C11 Chemical fibre medium, 20 mm thick

C13 Chemical fibre medium, 8 mm thick

C15 Chemical fibre medium, 20 mm thick

C58 Chemical fibre medium, 8 mm thick

5 Nominal size [mm]

Specify width × length

FMR - Roll media

gravimetric separation efficiency according to ISO 16890

50 %

Glass fibre medium, 50 mm thick

Width 2000, length 20000



## Dimensions

Product-specific data

| B    | L     | Filter class | Media type |
|------|-------|--------------|------------|
| 2000 | 20000 | Coarse 50 %  | G02        |
| 2000 | 20000 | Coarse 35%   | C04        |
| 2000 | 20000 | Coarse 45 %  | C58        |
| 2000 | 20000 | Coarse 45%   | C15        |
| 2000 | 20000 | Coarse 50 %  | C11        |
| 2000 | 20000 | Coarse 60%   | C13        |
| 2000 | 20000 | ePM10 55 %   | C06        |