

Roll 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 type FMR for the separation of coarse and fine dust in ventilation systems

Nominal sizes

- B × L [mm]

Filter classes

Filter groups

- ISO Coarse to ISO 16890
- ISO ePM10 to ISO 16890

Filter classes

- Coarse 40 % (G02)
- Coarse 55 % (C03)
- Coarse 50 % (C04)
- Coarse 60 % (C11)
- Coarse 55 % (C15)
- ePM10 55 % (C06)

Media type

- G02: Glass fibre medium (50 mm thick)
- C03: Chemical fibre medium (14 mm thick)
- C04: Chemical fibre medium (15 mm thick)
- C11: Chemical fibre medium (22 mm thick)
- C15: Chemical fibre medium (22 mm thick)

- C06: Chemical fibre medium (18 mm thick)

Construction features

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

Materials and surfaces

- Filter media made of glass fibres or chemical fibres

Standards and guidelines

- Test according to ISO 16890; international standard for general room air distribution; classification of arrestance efficiency based on the measured fractional arrestance efficiency, which is processed into a reporting system for the fine dust arrestance efficiency (ePM)
- For coarse dust filters, the gravimetric separation 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 arrestance 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	C03	C04	C11	C15	C06
Gravimetric efficiency according Coarse [%] to ISO 16890	40	55	50	60	55	–
Fractional efficiency ePM10 [%] to ISO 16890	–	–	–	–	–	55
Filter thickness [mm]	50	14	15	22	22	18
Nominal face velocity [m/s]	2.5	1.5	1.5	1.5	1.5	0.9
Initial differential pressure [Pa] at nominal volume flow rate	60	30	40	50	50	90
Max. operating temperature [°C]	100	100	100	100	100	100

Specification text

This specification text describes the general properties of the product. Texts for variants can be generated with our Easy

Product Finder design programme.

Specification text

Roll media FMR for the separation of coarse and fine dust in ventilation systems. Roll media available in standard sizes, filter groups ISO Coarse and ISO ePM10 according to ISO 16890. Glass fibre filter media are sprayed with dust binding agent, resulting in increased arrestance and preventing dust carry over.

Materials and surfaces

- Filter media made of glass fibres or chemical fibres

Sizing data

- Filter group [ISO 16890]
- Efficiency [%]
- Volume flow rate [m³/h]
- Initial differential pressure [Pa]
- Nominal size [mm]

Order code

FMR – Coarse – 40% – G02 / 2000 x 20000
| | | | |
1 2 3 4 5

1 Type

FMR Roll media

2 Classification

Coarse Gravimetric efficiency according to ISO 16890

ePM10 Fractional efficiency ePM10 to ISO 16890

3 Efficiency [%]

to ISO 16890

4 Media type

G02 Glass fibre medium, 50 mm thick

C03 Chemical fibre medium, 14 mm thick

C04 Chemical fibre medium, 15 mm thick

C11 Chemical fibre medium, 22 mm thick

C15 Chemical fibre medium, 22 mm thick

C06 Chemical fibre medium, 18 mm thick

5 Nominal size [mm]

B × L

FMR–Coarse–40%–G02/2000×20000

Classification

ISO Coarse to ISO 16890

Efficiency

40 %

Media type

Glass fibre medium, 50 mm thick

Nominal size

2000 × 20000 mm

Dimensions

Product specific data

B [mm]	L [mm]	Filter class	Media type
2000	20000	Coarse 40 %	G02
2000	20000	Coarse 55 %	C03
2000	20000	Coarse 50 %	C04
2000	20000	Coarse 60 %	C11
2000	20000	Coarse 55 %	C15
2000	20000	ePM10 55 %	C06