TROX® TECHNIK
The art of handling air

ROLL MEDIA, TYPE FMR

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

Application

Application

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

Nominal sizes

- B × L [mm]

Description

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

Nominal sizes

- B × L [mm]

TECHNICAL INFORMATION

Medientyp	G02	C03	C04	C11	C15	C06
Gravimetrischer Abscheidegrad Coarse [%] nach ISO 16890	40	55	50	60	55	–
Fraktionsabscheidegrad ePM10 [%] nach ISO 16890	–	–	–	–	–	55
Filterdicke [mm]	50	14	15	22	22	18
Nenn-Anströmgeschwindigkeit [m/s]	2,5	1,5	1,5	1,5	1,5	0,9
Anfangs-Druckdifferenz [Pa] bei Nenn-Volumenstrom	60	30	40	50	50	90
Maximale Betriebstemperatur [°C]	100	100	100	100	100	100

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]

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