TROX® TECHNIK
The art of handling air

FILTER MEDIUM, TYPE
FMP

FMP

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)
- Roll media or cut-to-size pads
- Tested to ISO 16890

Application

Application

- Filter media type FMP for the separation of coarse and fine dust in ventilation systems

Nominal sizes

- B × L [mm]

Description

Filter classes

- Coarse dust filters G3, G4
- Fine dust filters M5

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
- Filter media available in standard and special sizes: roll media, cut-to-size filter pads

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 average arrestance 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

TECHNICAL DATA, SPECIFICATION TEXT, ORDER CODE, Related products

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

Cut-to-size filter pads, type FMP, for the separation of coarse and fine dust in ventilation systems. Available as roll media in special sizes or as cut-to-size pads in standard and special 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

Construction

- ROL: Roll filter media
- PAD: Cut-to-size filter pads

Sizing data

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

FMP	–	Coarse	–	60%	–	C11	/	ROL	×	1000 × 20000
1		2		3		4		5		6

1 Type
FMP Filter medium

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 Construction
ROL Filter medium as roll media
PAD Cut-to-size filter pads

6 Nominal size [mm]
B × L

Dimensions

B [mm]	L [mm]	Filter class	Media type	Construction	Quantity
630	630	Coarse 40 %	G02	PAD	20 units
630	630	Coarse 50 %	C04	PAD	15 units
630	630	Coarse 60 %	C11	PAD	15 units
630	630	ePM10 55 %	C06	PAD	15 units

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Area	Filter class	Media type	Construction
pro m²	Coarse 40 %	G02	PAD
pro m²	Coarse 55 %	C03	PAD
pro m²	Coarse 50 %	C04	PAD
pro m²	Coarse 60 %	C11	PAD
pro m²	Coarse 55 %	C15	PAD
pro m²	Coarse 55 %	C06	PAD

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B [mm]	B_2 [mm]	L [mm]	Filter class	Media type	Construction
200	500	20000	Coarse 40 %	G02	ROL
501	1000	20000	Coarse 40 %	G02	ROL
1001	2000	20000	Coarse 40 %	G02	ROL
200	500	20000	Coarse 55 %	C03	ROL
501	1000	20000	Coarse 55 %	C03	ROL
1001	2000	20000	Coarse 55 %	C03	ROL
200	500	20000	Coarse 50 %	G04	ROL
501	1000	20000	Coarse 50 %	C04	ROL
1001	2000	20000	Coarse 50 %	C04	ROL
200	500	20000	Coarse 60 %	C11	ROL
501	1000	20000	Coarse 60 %	C11	ROL
1001	2000	20000	Coarse 60 %	C11	ROL
200	500	20000	Coarse 55 %	C15	ROL
501	1000	20000	Coarse 55 %	C11	ROL
1001	2000	20000	Coarse 55 %	C15	ROL
200	500	20000	Coarse 55 %	C06	ROL
501	1000	20000	Coarse 55 %	C06	ROL
1001	2000	20000	Coarse 55 %	C06	ROL