

Filter Media

Type FMP



TROX

6295 E Molloy Rd Suite 3, East Syracuse, NY 13057
sales-amn@troxgroup.com
www.trox-northamerica.com



TROX Social:



General information	2	Order code	5
Technical data	3	Dimensions	6
Specification text	4		

General information

Application

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

Nominal sizes

- B × L
[mm (in.)]

Filter classes

Filter groups

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

Filter classes

- Coarse 35 % (C04) [MERV 6]
- Coarse 45 % (C15) [MERV 7]
- Coarse 45 % (C58) [MERV 7]
- Coarse 50 % (C11) [MERV 8]
- Coarse 50 % (G02) [MERV 8]
- Coarse 60 % (C13) [MERV 8]
- ePM10 55 % (C06) [MERV 10]

Media type

- G02: Glass fibre medium (50 mm [2 in.] thick)
- C13: Chemical fibre medium (8 mm [5/16 in.] thick)
- C58: Chemical fibre medium (8 mm [5/16 in.] thick)
- C04: Chemical fibre medium (14 mm [9/16 in.] thick)
- C11: Chemical fibre medium (20 mm [3/4 in.] thick)
- C15: Chemical fibre medium (20 mm [3/4 in.] thick)
- C06: Chemical fibre medium (22 mm [7/8 in.] thick)

Construction

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

Construction features

- Glass fibre filter media sprayed with dust binding agent, resulting in increased separation efficiency and preventing dust carry over
- Filter media available in standard and special sizes: roll media, cut-to-size filter pads

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 efficiency (ePM (MERV))
- For coarse dust filters, the average separation efficiency is measured with synthetic dust
- The filters are classified into filter group ISO Coarse (MERV) 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 (comparable to ASHRAE 52.2 MERV ratings) depending on the tested values

Technical data

Media type	G02	C04	C58	C15	C11	C13	C06
gravimetric separation efficiency Coarse [%] according to ISO 16890	50	35	45	45	50	60	–
Fractional efficiency ePM10 [%] to ISO 16890	–	–	–	–	–	–	55
Estimated ASHRAE 52.2 Rating	MERV 8	MERV 6	MERV 7	MERV 7	MERV 8	MERV 8	MERV 10
Filter strength [mm (in.)]	50 (2)	14 (9/16)	8 (5/16)	20 (3/4)	20 (3/4)	8 (5/16)	22 (7/8)
Nominal face velocity [m/s (fpm)]	0.9 (177)	1.5 (295)	0.9 (177)	1.5 (295)	1.5 (295)	1.5 (295)	0.9 (177)
Initial differential pressure [Pa (in. w.g.)] at nominal flow rate	10 (0.04)	30 (0.12)	10 (0.04)	45 (0.18)	60 (0.24)	50 (0.20)	85 (0.34)
Max. operating temperature [°C (°F)]	100 (212)	100 (212)	100 (212)	100 (212)	100 (212)	100 (212)	100 (212)

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

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 (comparable to ASHRAE 52.2 MERV ratings). 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

- Filter media made of glass fibres or chemical fibres

Sizing data

- Filter group [ISO 16890 (MERV)]
- Separation efficiency [%]
- Volume flow rate [m³/h (cfm)]
- Initial differential pressure [Pa (in. w.g.)]
- Nominal size [mm (in.)]

Order code

FMP – Coarse – 60% – C11 / ROL / 1000 × 20000

1 2 3 4 5 6

1 Type

FMP Filter medium

2 Classification

Coarse Gravimetric separation efficiency according to ISO 16890 (acc. to ASHRAE 52.2)

ePM10 Fractional efficiency ePM10 according to ISO 16890

3 Separation efficiency

Specify separation efficiency [%] according to ISO 16890

4 Media type

G02 Glass fibre medium, 50 mm (2 in.) thick

C04 Chemical fibre medium, 14 mm (9/16 in.) thick

C06 Chemical fibre medium, 22 mm (7/8 in.) thick

C11 Chemical fibre medium, 20 mm (3/4 in.) thick

Order example: FMP-Coarse-50%-C11/ROL/1000×20000

Type	FMP – Filter medium
Classification	Gravimetric separation efficiency according to ISO 16890(ASHRAE 52.2)
Separation efficiency	50 %
Media type	Chemicalfibre medium, 20 mm (3/4 in.) thick
Construction	Filter medium as roll media
Nominal size [mm (in)]	Width 1000mm (39 3/8 in.), length 20000 mm (787 3/8 in.)

C13 Chemical fibre medium, 8 mm (5/16 in.) thick

C15 Chemical fibre medium, 20 mm (3/4 in.) thick

C58 Chemical fibre medium, 8 mm (5/16 in.) thick

5 Construction

PAD Cut-to-size filter pads

ROL Filter medium as roll media

ROLS Cut-to-size filter pads

6 Nominal size [mm (in)]

Specify width × length

Dimensions

FMP: Construction/dimensions

Construction	B minimal	B maximum	L minimal	L maximum
PAD*	50 (2)	2000 (78 3/4)	50 (2)	3000 (118 1/8)
ROL**	150 (5 7/8)	2000 (78 3/4)	20000 (787 3/8)	20000 (787 3/8)
ROLS*	150 (5 7/8) increments	2000 (78 3/4)	3001 (118 1/8)	19999 (787 3/8)

** Length selectable in mm (in) increments only