

Ultrapoly PE

The prefilter for the removal of solid contaminants in gases.

Product description:

The Ultrapoly prefilter contains the high porous, sintered polyethylene filter medium. Even finest dust particles and other contaminants in compressed air and gases are being removed effectively on the surface and in the depth of the filter medium.

Characteristics:

By utilising various filtration mechanisms – such as direct impact and sieve effect – contaminants down to the size of 25 µm particles, are being retained in the filter.

Cross section of the Ultrapoly prefilter



Applications:

The Ultrapoly prefilter is for example being utilised in the following industries

- Chemical industry
- Petrochemical industry
- Pharmaceutical industry
- Plastic industry
- General machine fabrication
- Food industry
- Beverage industry
- Process industry for instrumentation and control air



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Features:	Benefits:
Permanent temperature range: -4°F up to +176°F	Wide application spectrum
Void volume: porosity grade 45%	High dirt holding capacity: lower differential pressure
Filter surface: 5.5 sq.in. (02/05) up to 480 sq.in. (30/50)	Appropriate for any application and flow
Removal of contaminants down to 25 µm	Guaranteed retention grade
Regenerative	Economical, longer service life time

Materials:	
Filter medium	Pure, high molecular polyethylene
Bonding	Polyurethane
End caps	Aluminium
2 O-Rings	Perbunan-silicon-free and free of parting compound (standard)

Retention rate:

100% in gases

Maximum differential pressure:

30 psi at 68°F, irrespective of system pressure

Performance of PE elements - compressed air

These curves define the flow of a 10/30 filter element at standard conditions (14.5 psi; 68°F; R.H. = 70%)



Initial differential pressure at nominal flow:

PE = 0.44 psi

Element-Type	Correction Factor Filter surface KF
02/05	0.06
03/05	0.09
03/10	0.12
04/10	0.17
04/20	0.19
05/20	0.25
05/25	0.32
07/25	0.47
07/30	0.68
10/30	1.0
15/30	1.55
20/30	2.10
30/30	3.20
30/50	5.73