

Filter media

Ti 07

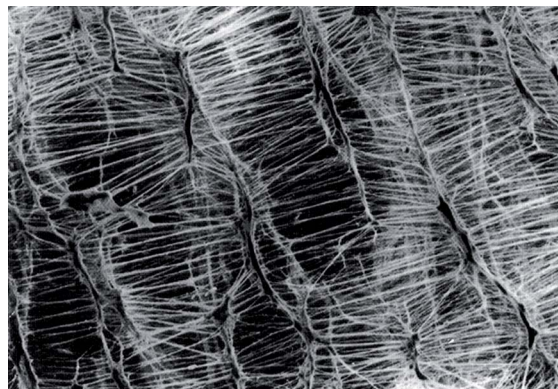
Polyester fleece with PTFE membrane, electrical conductive

1. Features

This pioneering filter media combines a newly developed, electrically conductive polyester media with a PTFE membrane. Statically charged particles transfer their charge via the membrane to the conductive polyester media. Ti 07 is a composite media that makes the advantages of surface filtration accessible to applications in hazardous areas.

Characteristics

- Specially designed for filtering statically chargeable and explosive fine dusts
- Efficient surface filtration thanks to the microporous PTFE membrane
- High mechanical strength
- Very smooth, fibre-free surface
- Compliance with the requirements of DIN EN 60335-2-69 and EN 1822-3 class H11 at $v = 1\text{m/min}$
- FDA approval acc. to 21 CFR Ch. I § 177.1550
- Worldwide distribution

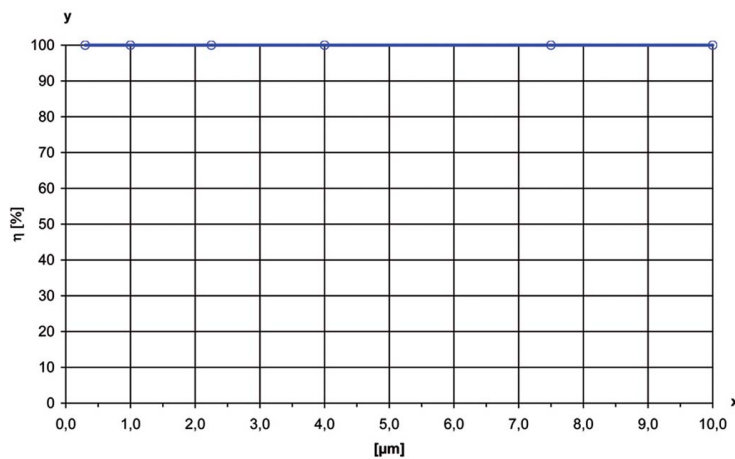


2. Technical data

Type	Media	Media thickness [mm]	Weight [g/m ²]	Air permeability [m ³ /m ² h]	max. operating temperature [°C]	Test certificates/ dust classes
Ti 07	electrically conductive polyester (PET) with polytetrafluoroethylene (PTFE) membrane	0.7	280	150 at Δp 200 Pa	130 (permanent) max. 150 (peaks)	DIN EN 60335-2-69 "M"

Technical data is subject to change without notice!

3. Filtration efficiency



Filtration efficiency: > 99.99 %
at 0.3 μm

Test conditions

Inflow velocity: 3.36 m/min

Mass concentration: 200 mg/m³

Test dust: Dolomit DRB 20 (Rock flour)

Electrical resistance: < 3.4 x 10⁷ Ω

x = Particle size [μm]

y = Filtration efficiency η [%]

These values may vary depending on the nature of the dust, the composition of the gas and the cartridge design.

4. Chemical resistance/mechanical properties

Chemical resistance	Chemical resistance				Mechanical properties			
	Very good	Good	Limited		Very good	Good	Limited	
Water	x				Surface quality (smoothness)	x		
Hydrolysis			x		Stability	x		
Acids		x			Abrasion resistance			x
Alkalis			x		Cleanability (jet pulse)	x		
Solvents		x			Washability		x	

These properties are of purely qualitative valuation and depending on the nature of the dust, the composition of the gas and the operating conditions.

5. Design

Please contact us for detailed technical information, any open questions and for general expert advice. Completion of the relevant questionnaire would facilitate in the coordination of all important parameters.

Comprehensive documentation on our product range, cleaning units and cartridges can be provided.

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