

Filter media

Ti 07/1

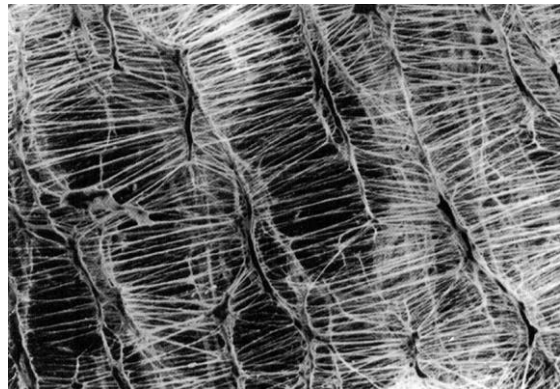
Polyester fleece with PTFE membrane, electrostatic conductive

1. Features

This pioneering filter media combines a newly developed, electrostatic conductive polyester media with a PTFE membrane. Statically charged particles transfer their charge via the membrane to the conductive polyester media. Ti 07/1 is a composite media that makes the advantages of surface filtration accessible to applications in hazardous areas.

Characteristics

- Specially designed for filtering electrostatically 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/ Dust class "M" and EN 1822-3 class E10 at $v \leq 1\text{m/min}$
- Filter media ist conform to regulations (EC) No. 1935/2004 and (EU) No. 10/2011 as well as FDA 21 CFR CH. I §177.1550 requirements
- Electro statical behaviour testes acc. to DIN EN 54345 Part 1 and 5
- Worldwide distribution



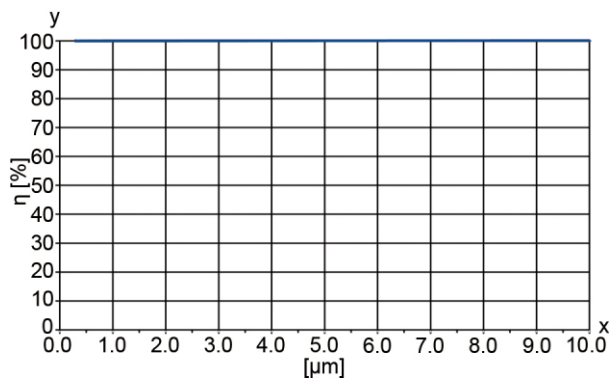
2. Technical data

| 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 07/1 | electrostatic conductive polyester fleece with PTFE membrane | 0.65 | 265 | 150 at Δp 200 Pa | 130 (permanent) max. 150 (peaks) | DIN EN 60335-2-69 "M" EN 1822-3 "E10" |

Technical data is subject to change without notice!

Electrostatic resistance according to DIN EN 54345 Part 1 and 5: $< 1 \times 10^6 \Omega$

3. Filtration efficiency



Filtration efficiency: > 99.99 %
at 0.3 μm

Test conditions

Filter surface load: 3.36 m³/m²*min

Mass concentration: 200 mg/m³

Test dust: Dolomit DRB 20
(Rock flour)

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 | Mechanical properties | | |
|---------------------|---------------------|------|---------|--|------------------------------|-----------------------|------|---------|
| | Very good | Good | Limited | | | Very good | Good | Limited |
| Humidity | | 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 (e.g. temperature).

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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