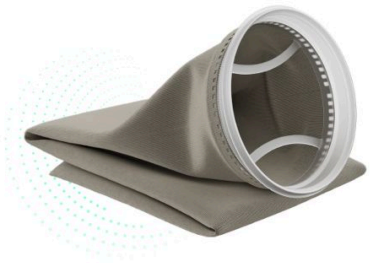
DUST BAG FILTERS

Glass Fibre Bag Filter

High-temperature dust filter made from alkali-free E-glass fibre in woven and needle-punched felt constructions, supplied with an ePTFE membrane as standard. It operates continuously up to 260 °C and is used for flue gas filtration in cement, power, metallurgy and waste incineration plants.



CONTINUOUS TEMPERATURE	WEIGHT	EMISSIONS	SERVICE LIFE
260 °C	**770 g/m²**	**< 10 mg/Nm³**	**> 4,500 hours**
Peak 288 °C · dry	Thickness 0.9 mm	With ePTFE membrane	With suitable cage and conditions

Technical specifications

Fibre type	Alkali-free glass fibre (E-glass)
Fabric structure	Woven + needle-punched felt
Weight	770 g/m²
Thickness	0.9 mm
Air permeability	25 L/dm²·min @ 200 Pa
Tensile strength	Longitudinal 4,000 N/50 mm · longitudinal elongation 0.5%
Continuous operating temperature	260 °C (dry)
Peak (surge) temperature	288 °C (dry)
Chemical resistance	Good with acids · not suitable for HF and strong alkalis (pH > 10)
Surface treatments	ePTFE membrane (standard) · PTFE coating · Silicone + graphite + PTFE (SGP) · Acid-resistant (AR)
Emissions	< 10 mg/Nm³ (with ePTFE membrane)
Filtration direction	Inside-out · surface filtration
Cleaning system	Pulse-jet (0.3–0.5 MPa) · Reverse air · Shaker
Cage support	Cage with at least 20 vertical wires
Service life	> 4,500 hours

Temperature and chemical resistance

CONDITION	VALUE
Continuous operation	260 °C (dry)
Peak (surge)	288 °C (dry)
Acids	Good resistance
SO_2 / SO_3, acid dew point	Strong with AR coating
Strong alkali (pH > 10)	Not suitable
Hydrofluoric acid (HF)	Not suitable
Humidity / condensation	ePTFE or AR coating

For HF and fluoride gases, choose PPS or PTFE.

Collar options

Snap ring
Galvanised or stainless steel ring; economical standard.

Snap band
Flexible steel band clicks into its seat.

Plain top / drawstring
Special clamping devices or drawstring hanging.

Surface treatment options

SURFACE TREATMENT	PROPERTY	RECOMMENDED APPLICATION
ePTFE membrane (standard)	PM2.5 retention, < 10 mg/Nm³ emissions	Waste incineration, chemical plants
PTFE coating	Abrasion protection, moderate chemical resistance	Coal boilers, general industry
Silicone + graphite + PTFE (SGP)	Abrasion protection, low cost	Cement plants, metal casting
Acid-resistant (AR)	Acid dew point and SO_2/SO_3 resistance	Fossil fuel plants, carbon black

Use and maintenance

- Do not put the bag into service without a cage with at least 20 vertical wires.
- Flue gas must not exceed 260 °C continuous or 288 °C peak; monitor temperature.
- Keep pulse-jet pressure within 0.3–0.5 MPa; excessive pressure breaks the glass fibres.
- Do not use glass fibre bags in processes containing HF.
- In high-humidity processes, confirm ePTFE membrane or AR coating in advance.
- Do not place loads on stored bags; use moisture-proof packaging.

Values in this data sheet are typical and for information only. Product selection should be made with our engineers based on process fluid, temperature, pressure and flow conditions. Proses T.İ.M. reserves the right to change product specifications without prior notice.

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