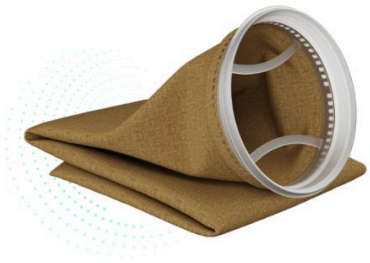
DUST BAG FILTERS

Nomex Bag Filter (Meta-Aramid)

High-temperature dust filter made from meta-aramid fibre by the needle-punched felt method. With 204 °C continuous operation and high flex abrasion resistance, it is used at 150–204 °C in asphalt plants, cement clinker coolers, electric arc furnaces and metallurgical processes.



CONTINUOUS TEMPERATURE	WEIGHT	PH RANGE	FLAME RESISTANCE
204 °C	**350–650 g/m²**	**5–9**	**LOI 28–30**
Peak 240 °C · dry	Needle-punched felt	Moderate acid / alkali resistance	Self-extinguishing

Technical specifications

Fibre type	Meta-aramid (Nomex)
Fabric structure	Needle-punched felt
Weight	350–650 g/m²
Continuous operating temperature	204 °C (dry)
Peak (surge) temperature	240 °C (dry)
Chemical resistance	Moderate acid and alkali resistance · pH 5–9
Dimensional stability	Does not shrink or deform at high temperatures
Flex abrasion resistance	High; suitable for intensive pulse-jet cycles
Flame resistance	Self-extinguishing · LOI 28–30
Surface treatments	Singeing · Calendering · Water and oil repellent · PTFE coating · ePTFE membrane · Antistatic
Emissions	< 10 mg/Nm³ (with ePTFE membrane)
Cleaning system	Pulse-jet · Reverse air · Shaker
Service life	Approx. 24–36 months, depending on process conditions
Custom production	Non-standard diameter, length and surface treatment

Temperature and chemical resistance

CONDITION	VALUE
Continuous operation	204 °C (dry)
Peak (surge)	240 °C (dry)
Recommended range	150–204 °C
Acids	Moderate resistance
Alkalis	Moderate resistance
Safe pH range	5–9

Media comparison

Versus glass fibre

Much higher flex abrasion resistance; longer life under intensive pulse-jet. Glass fibre withstands 260 °C.

Versus PPS

Nomex for dry applications where mechanical stress dominates; PPS (190 °C) for acids and moisture.

Versus PTFE

Economical choice at medium to high temperatures; PTFE (240 °C) leads in chemical resistance.

Surface treatment options

SURFACE TREATMENT	PROPERTY	RECOMMENDED APPLICATION
Singeing	Smooths the surface, improves dust release	General high-temperature applications
Calendering	Smooths the surface; pulse-jet compatible	Asphalt and cement plants
Water and oil repellent	Reduces particle adhesion in humid and oily gases	Carbon black, chemical processes
ePTFE membrane	Surface filtration, low emissions	Applications with strict emission limits
Antistatic	Helps dissipate static charges in a controlled way	Applications involving combustible dust

Use and maintenance

- Flue gas must not exceed the 204 °C continuous and 240 °C peak limits; monitor temperature.
- Check the gas chemistry; outside pH 5–9, consider PPS or PTFE.
- Keep the pulse-jet cleaning pressure within the recommended range.
- Check the cage when changing bags; do not use deformed or rusted cages.
- Choose an ePTFE membrane for strict emission limits and antistatic treatment for combustible dusts.

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.

PROSES T.İ.M.®

Proses Ticaret İmalat Mühendislik Ltd. Şti.
Musa Gündüz Cad. No:14 Taşköprü, Çiftlikköy / Yalova, Türkiye

+90 226 353 35 70 · Head office
sales@prosestim.com
prosestim.com/en

Product page