

BWF Envirotec

The right filter media
for your filtration application



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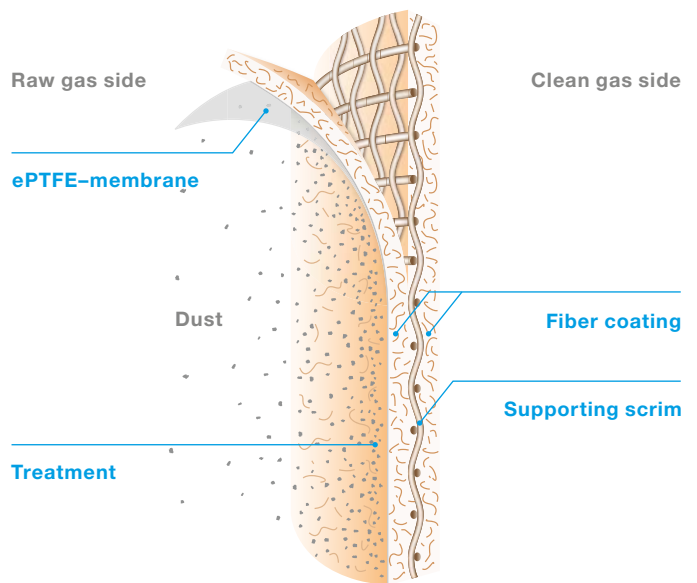
Reliably reducing emissions and complying with the dust emission limit values play a central role in dedusting. Our high-performance filter bags fulfil the highest demands in dedusting exhaust air and flue gas.

OUR FILTER MEDIA

- needlona® filter media are made of all types of established polymer fibre. To optimise service life under the most punishing conditions the web fibres are anchored to a strong supporting scrim.
- Owing to a laminated ePTFE membrane on the dust side, **PM-Tec® filter media** already reliably separate fine dusts on the surface. needlona® filter media or fibreglass fabric are used as the base.

PROTECTIVE TREATMENTS

Treatments developed in our R&D Competence Centre significantly improve the performance of the filter media.



Structure of a needlona®-needle felt and PM-Tec®-needle felt with ePTFE-membrane

SURFACE FINISHES

SYMBOL	DESCRIPTION/AVAILABLE FOR	PP/ (RO)	PA	AC	DT	PE	NO/ NX	PPS	PI	PFB	PTFE (TFL)	GL
Code 0	microporous ePTFE membrane	●	○	●	●	●	●	●	●	●	●	●
Code 1	singed face side	●	●	●	●	●	●	●	●	●	-	-
Code 2	unsinged	●	●	●	●	●	●	●	●	●	●	-
Code 3	singed on both sides	●	●	●	●	●	●	●	●	●	-	-
Code 4	calendered face side	-	-	-	-	-	●	-	●	●	●	-
Glaze	glazed face side	●	-	●	●	●	-	●	-	-	-	-

RESISTANCE OF FILTER MATERIALS TO THE INFLUENCE OF CHEMICALS AND TO TEMPERATURE

SCRIM AND FIBRE TYPES	BWF ENVIROTEC DESIGNATION	TEMPERATURE*		HYDROLYSIS-RESISTANCE	ACID-RESISTANCE	ALKALI-RESISTANCE**	OXIDATION-RESISTANCE
		Contin. °C	Peak °C				
Polypropylene	PP	90	95	excellent	excellent	excellent	limited
Polyamide	PA	110	115	limited	moderate	good	moderate
Polyacrylonitrile copolymer	AC	115	120	good	moderate	moderate	good
Temperature-resistant olefin	RO	125	135	excellent	excellent	excellent	excellent
Polyacrylonitrile homopolymer	DT	125	140	good	good	moderate	good
Polyester	PE	150	150	limited	moderate	limited	good
Polyphenylene sulphide	PPS	190	200	excellent	excellent	excellent	moderate
m-Aramide	NO, NX	200	220	moderate	moderate	moderate	moderate
Polyimide	PI	240	260	good	moderate	moderate	good
Premium Fibre Blend	PFB	240	260	good	moderate	moderate	good
Polytetrafluorethylene	PTFE, (TFL)	250	280	excellent	excellent	excellent	excellent
Fibreglass fabric	GL	260	288	good	moderate	moderate	excellent

* Chemical gas stream conditions may require a lower continuous operating temperature to be maintained.

** Especially in case of operation below the dew point and harmful impact of aerosols.

PROCESS ORIENTED FILTER MATERIAL

SYMBOL	DESCRIPTION/AVAILABLE FOR	PP/(RO)	PA	AC	DT	PE	NO/NX	PPS	PI	PFB	PTFE (TFL)	GL
as	stainless steel fibre admixture, volume resistant < 10 ⁶ Ohm (DIN 54345 part 1)	●	●	●	●	●	●	●	●	●	●	-
AsphalTec®	filter media for the asphalt industry	-	-	-	●	-	●	-	-	-	-	-
Epi	admixture of polymer fibres with carbon encapsulation	●	●	●	●	●	-	-	-	-	-	-
ExCharge®	permanent conductive matrix, permanently resistant < 10 ⁶ Ohm (DIN 54345 part 1 and part 5), tested by DEKRA	●	-	●	●	●	-	-	-	-	-	-
FoodTec®	with declaration of conformity according to regulation (EU) no. 10/2011, Annex IV Article 15, compliant with FDA 21 CFR §176 and §177, manufactured according to GMP EC 2023/2006	●	-	-	-	●	-	-	-	-	●	○
LiquiTec	filter media for solid-liquid filtration	●	●	-	●	●	●	●	●	●	●	-
MPS®	micropores by fine fibres	●	●	-	●	●	●	●	●	●	●	-
PZ	IFA (BGIA) test certificate	○	○	○	○	●	○	○	○	○	○	○

● standard ○ on request

PROTECTIVE TREATMENTS

SYMBOL	DESCRIPTION/AVAILABLE FOR	PP/ (RO)	PA	AC	DT	PE	NO/ NX	PPS	PI	PFB	PTFE (TFL)	GL
AR	acid, base, hydrolysis protective finish	-	-	-	-	-	-	-	-	-	-	●
BlockGuard®	protection against spark flow	-	-	-	-	●	-	-	-	-	-	-
CS17®	full bath dust, oil and water repellent finish	●	●	●	●	●	●	●	●	●	-	-
CS18® plus	anti-adhesive PTFE surface treatment	○	○	●	●	●	●	●	●	●	●	-
CS29® for m-Aramide	acid, base, hydrolysis protective finish with dust, oil and water repellence	-	-	-	-	-	●	-	-	-	-	-
CS29® for other polymers	dust, oil and water repellent finish	-	-	-	●	●	-	●	●	●	-	-
CS30	full bath PTFE treatment	○	○	●	●	●	●	●	●	●	●	-
CS31	full bath PTFE dust, oil and water repellent finish	○	○	○	●	●	●	●	●	●	○	-
CS52 for m-Aramide	acid, base, hydrolysis protective finish with dust, oil and water repellence for improved surface filtration	-	-	-	-	-	●	-	-	-	-	-
FireGuard®	protection against spark flow combined with optimised dust separation	-	-	-	-	●	●	●	●	●	-	-
FlameTec	flame retardant impregnation	-	-	-	-	●	-	-	-	-	-	-
Si, Code 9	full bath anti-adhesive finish	●	-	●	●	●	●	●	●	●	-	-
TS	anti-adhesive PTFE based treatment	●	●	●	●	●	●	●	●	●	○	-
x-surf	application-oriented anti-adhesive treatment	●	-	●	●	●	●	●	●	●	-	-

● standard ○ on request

OUR SITES – WORKING FOR YOU AROUND THE GLOBE

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