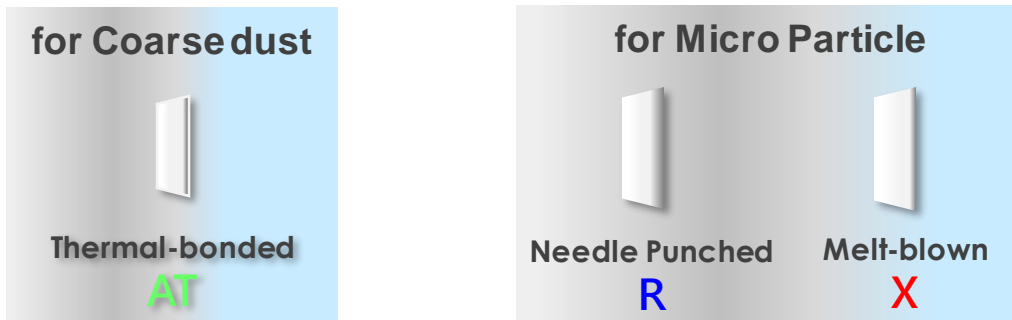


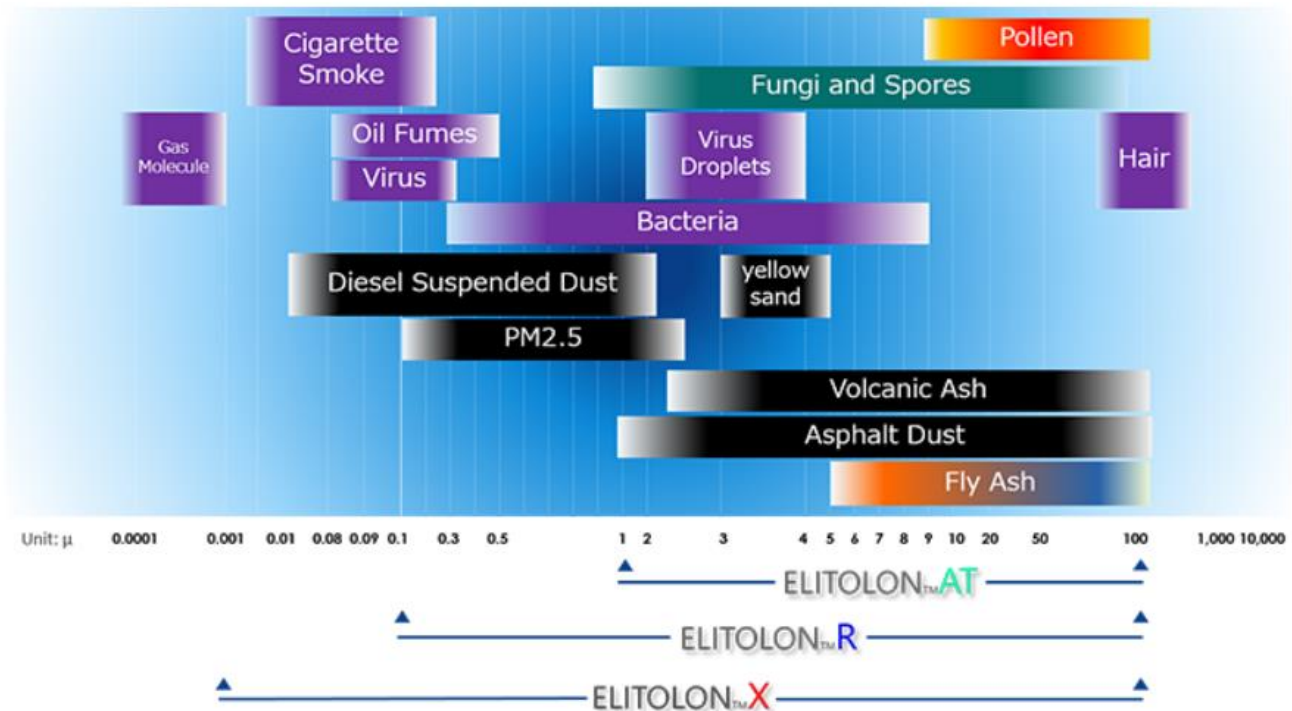
Dust removal filter (ELITOLON™)

What is ELITOLON™ ?

An electrostatic (electret) filter developed by combining our company's unique advanced polymerization technology, fiber production technology, and electrostatic charging technology. Since the microfiber retains static electricity, dust in the atmosphere can be effectively collected, and high collection efficiency can be achieved with low aeration resistance.



Relationship between the Particle Size of Particulate Matter in the Atmosphere and ELITOLON™



Unit : μm

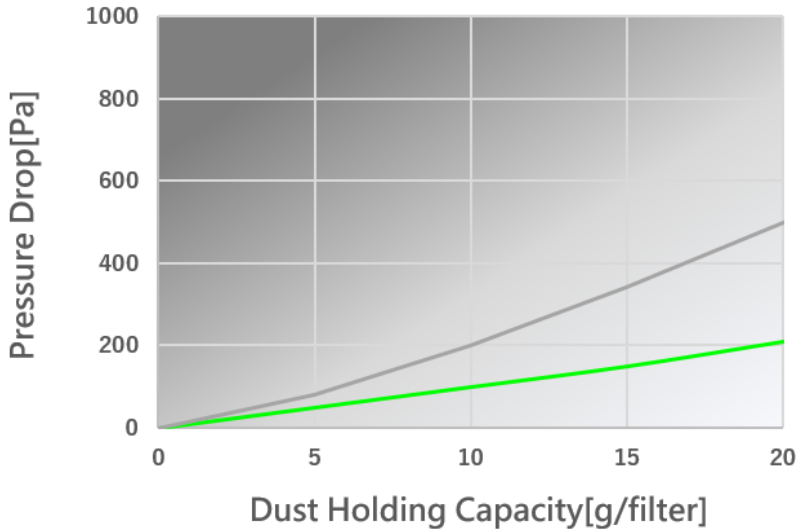
ELITOLON™ does not eliminate all harmful substances in the air.

Features

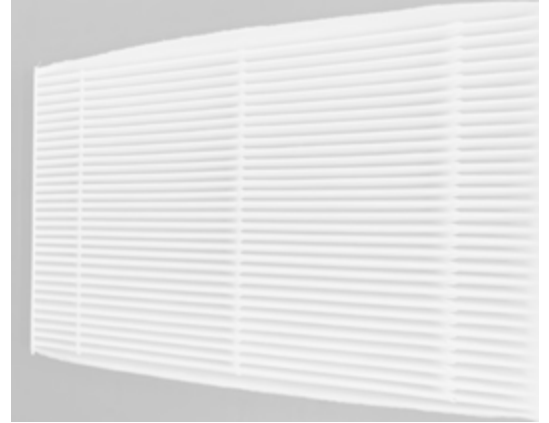
What is ELITOLON™ AT

ELITOLON™ AT is a single-layer, pleated, charged nonwoven fabric with excellent long-term durability.

Dust Loading Test



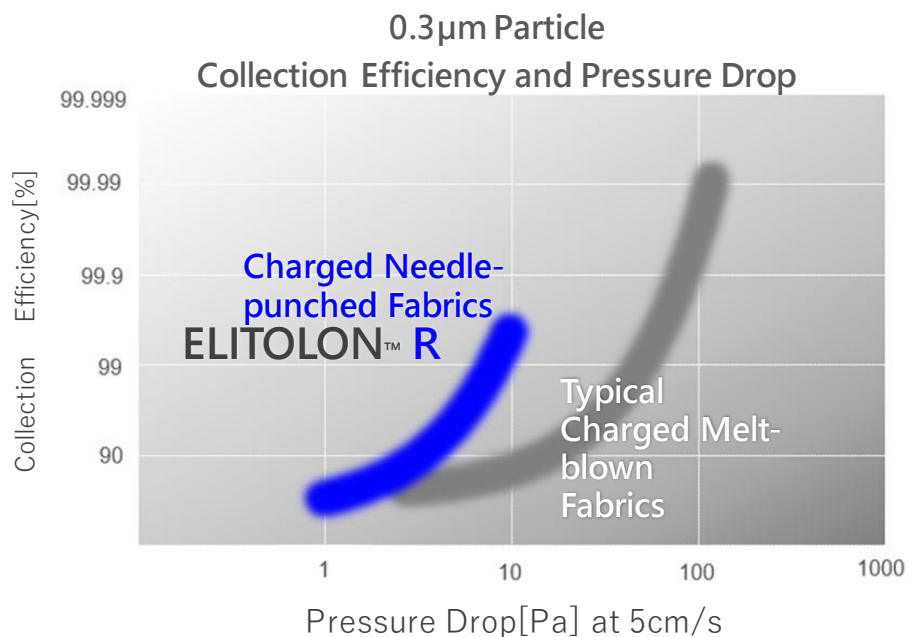
The above data is an estimate considering the characteristics of the filter material (according to our company).



Test Conditions:
Filter Size: 200*200*30mm
Velocity: 3m/sec
Test Dust: ASHRAE Dust

What is ELITOLON™ R

ELITOLON™ R is a charged nonwoven fabric with an excellent balance between pressure loss and collection efficiency.

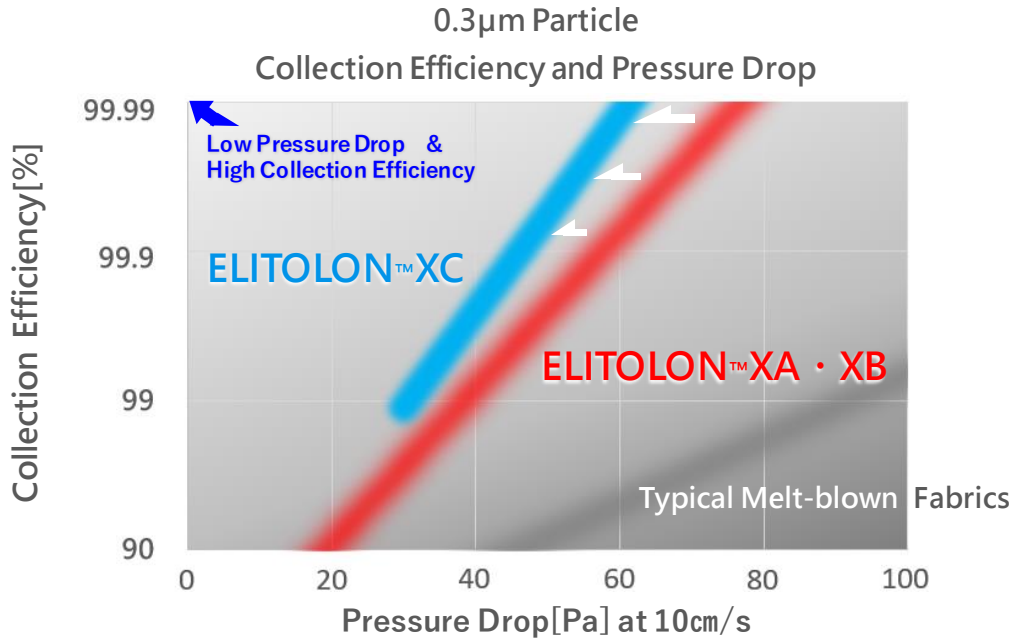


The collection efficiency is evaluated with 0.3 µm dust in the air.
The above data is measured and not guaranteed (according to our company).

Features

What is ELITOLON™ X

ELITOLON™ X is a charged melt blown nonwoven fabric that achieves high collection efficiency with low pressure loss.



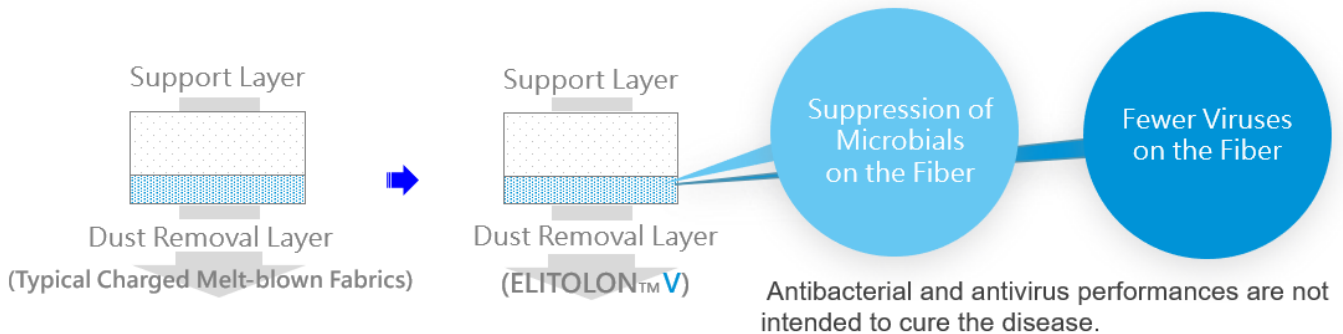
The collection efficiency is evaluated with 0.3 µm dust in the air.
The above data is measured and not guaranteed (according to our company).

What is ELITOLON™ V

ELITOLON™ V is charged melt-blown fabrics with both antibacterial and antiviral properties without spoiling its excellent filtration performance.

ELITOLON™ V Application

Filter Media with Antibacterial and Antiviral properties in the Dust Removal Layer



Antibacterial properties was observed on the non-woven fabrics on under certain test condition.
Antiviral properties was observed on the non-woven fabrics on under certain test condition.
In case of your consideration, kindly use after a thorough check of the conformity to compliances with laws and regulations concerning antibacterial material and product indication in the destination area, and of the conformity to the quality of the product.

ELITOLON™ is the trademark of Toyobo MC's charged filter and charged non-woven fabrics.

Specifications and Performance

ELITOLON™ AT General Properties

Part No.	Weight	Thickness *1	Initial pressure drop *2	Initial efficiency *3	Initial efficiency *4
			ΔP	ISO A2	TSI(NaCl)
	[g/m ₂]	[mm]	[Pa]	[%]	[%]
EFAT75S	75	0.7	3	50	31
EFAT80SB	80	0.8	4	55	36
EFAT90S	90	0.8	4	65	44
EFAT100	100	2.0	2	70	46
EFAT100F	100	0.9	9	89	73

*1 Load: 15.3 g/cm₂ *2 Wind speed: 10 cm/s *3 Wind speed: 10 cm/s Measured in duct in accordance with ISO 11155

*4 Wind speed: 5.3 cm/s (TSI-8130 32 L/min)

The above data is measured and not guaranteed (according to our company).

ELITOLON™ R General Properties

Product number	Weight	Thickness *1	Initial pressure drop *2	Initial efficiency *3	Initial efficiency *4
			ΔP	TSI(NaCl)	PFE
	[g/m ₂]	[mm]	[Pa]	[%]	[%]
EFR-15	30	0.6	0.6	46	95
EFR-25	40	1.1	1	66	97
EFR-35	50	1.2	1	70	97
EFR-45	60	1.4	1.5	75	97
EFR-65	80	1.7	3	90	98
EFR-80	95	1.9	4.5	93	98
EFR-100	130	2	7	98	99
EER-150	200	2.8	10	99.6	99.6

EFR-80,100,150 corresponds to CN95.

*1 Load: 7.0 g/cm₂ *2 Wind speed: 5.3 cm/s *3 Wind speed: 5.3 cm/s, TSI -8130 32 L/min

*4 ASTM F 2299 No neutralization Filtration area: 49 cm² Flow rate: 28.3 L/min Wind speed: 9.6 cm/s

The above data are measured values and not guaranteed values (according to our company).

Specifications and Performance

ELITOLON™ R General Properties (with Reinforced Mesh)

Part number	Weight	Thickness * ₁	Initial pressure drop * ₂	Initial efficiency * ₃
			ΔP	TSI(NaCl)
	[g/m ₂]	[mm]	[Pa]	[%]
EFR15L	100	1.2	0.8	69
EFR25L	110	1.2	1.0	77
EFR35L	120	1.3	1.5	80
EFR80L	160	1.7	4.0	93

EFR-80 L corresponds to CN95.

*₁ Load: 15.3 g/cm₂ *₂ Wind speed: 5.3 cm/s *₃ Wind speed: 5.3 cm/s, TSI-8130 32 L/min
The above data are measured values and not guaranteed values (according to our company).

ELITOLON™ X General Properties

Product number	Weight	Thickness * ₁	Initial pressure drop * ₂	Initial efficiency * ₃	Initial efficiency * ₄
			ΔP	TSI(NaCl)	PFE
	[g/m ₂]	[mm]	[Pa]	[%]	[%]
EFXA15FG	15	0.20	16	99.2	99.8
EFXA18FG	18	0.20	19	99.7	≥99.9
EFXA30FG	30	0.35	35	99.95	≥99.9
EFXB18UG	18	0.20	30	99.93	≥99.9
EFXB22UG	22	0.24	40	99.98	>99.9
EFXB24UG	24	0.28	46	99.99	>99.9
EFXC18UG	18	0.20	30	99.98	≥99.9

EFXC18UG, a newly developed product, has been added. 26UG is under development. We can also propose laminated products.

*₁ load: 7.0 g/cm₂

*₂ Wind speed: 5.3 cm/s

*₃ Wind speed: 5.3 cm/s, TSI-8130 32 L/min

*₄ ASTM F 2299 Filtration area: 49 cm², Air flow: 28.3 L/min, Wind speed: 9.6 cm/s

The above data are measured values and not guaranteed values (according to our company).

Specifications and Performance

ELITOLON™ V General Properties

Charged melt blown nonwoven fabric with antibacterial and antiviral properties while maintaining excellent filtration performance.

Part No.	Weight	Thickness * 1	Initial pressure drop * 2	Initial efficiency * 3
			ΔP	TSI (NaCl)
	[g/m ₂]	[mm]	[Pa]	[%]
EB1B15FG	15	0.20	16	99.2
EB1B18FG	18	0.20	19	99.7
EB1B30FG	30	0.35	35	99.95
EB1B18UG	18	0.20	30	99.93
EB1B22UG	22	0.24	40	99.98
EB1B24UG	24	0.28	46	99.99

Laminated products can also be proposed.

*1 load: 7.0 g/cm₂

*2 wind speed: 5.3 cm/s

*3 wind speed: 5.3 cm/s, TSI-8130 32 L/min

The above data are measured values and not guaranteed values (according to our company).

The above part number conforms to the European (BPR) and North American (FIFRA) regulations, but not to the Korean (K-BPR) regulations. When considering the product, make sure that the product complies with the requirements for performance labeling, antimicrobial materials, and quality requirements of the final product.