

Material Specification

NOMEX



MATERIAL: The NOMEX material is woven by the weaving mill of Euro Air using NM 60/2 yarns. The NOMEX fibre is well-known for its flame resistant properties meaning that it will neither melt, drip nor combust in air. The NOMEX material of Euro Air is woven in a twill weave using staple fibres to ensure largest possible textile surface and uniform air permeability.

CONSTRUCTION: Heatset, shrinkage- and permeability-stabilized material.

Type		NOMEX 130	NOMEX 290	NOMEX 460	NOMEX 700	Standard
Weight (%) -/+5	g/m ²	298	250	220	210	EN-ISO 5077
Thickness (%) -/+10	mm	0.44	0.55	0.55	0.5	EN-ISO 12127:1997
Permeability	m ³ /m ² /h 120 Pa Tolerance (%)	130 -9/+9	290 -14/+14	460 -8/+8	700 -5/+5	EN ISO 9237:1995
Tensile strength (%) -/+10	Warp / Weft N/50 mm	>1300 / 1400	1600 / 1300	1600 / 1100	1700 / 880	EN-ISO 13934-1
Resistance to tearing (%) -/+10	Warp / Weft N	170 / 170	120 / 110	140 / 100	150 / 140	EN-ISO 13937:2
*Dust retention Filter class		N/A	N/A	N/A	N/A	EN-ISO 779:2012
**Shrinkage in wash	(%) 40°C	-	-	-	-	EN-ISO 5077
Melting point	°C	371	371	371	371	
Operating temperature	°C	100 / -45	100 / -45	100 / -45	100 / -45	
Spontaneous ignition temp.	°C	-	-	-	-	
Water absorption	(%) at 90% RF	5	5	5	5	
Electrostatic resistance	Ohm/cm	3 x 10 ⁸	3 x 10 ⁸	3 x 10 ⁸	3 x 10 ⁸	DIN 54345
Clean room classification		N/A	N/A	N/A	N/A	ISO-14644-1
Fire resistance		B-S1-d0 N/A	B-S1-d0 N/A	B-S1-d0 N/A	B-S1-d0 N/A	EN-13501 UL 723/NFPA 90 A
Oeko-Tex®		Approved	Approved	Approved	Approved	Standard 100
Cradle to Cradle™				N/A		

*EA measurement **Washed and dried according to Euro Air instructions

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