

# 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 <sup>2</sup>	298	250	220	210	EN-ISO 5077
Thickness (%) -/+10	mm	0.44	0.55	0.55	0.5	EN-ISO 12127:1997
Permeability	m <sup>3</sup> /m <sup>2</sup> /h 120 Pa	130	290	460	700	EN ISO 9237:1995
	Tolerance (%)	-9/+9	-14/+14	-8/+8	-5/+5	
Tensile strength (%) -/+10	Warp / Weft	>1300 / 1400	1600 / 1300	1600 / 1100	1700 / 880	EN-ISO 13934-1
	N/50 mm					
Resistance to tearing (%) -/+10	Warp / Weft N	170 / 170	120 / 110	140 / 100	150 / 140	EN-ISO 13937:2
*Dust retention Filter class		F5	F6	F5	F5	EN-ISO 779
**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 <sup>8</sup>	3 x 10 <sup>8</sup>	3 x 10 <sup>8</sup>	3 x 10 <sup>8</sup>	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		
Cradle to Cradle™				N/A		

\*EA measurement \*\*Washed and dried according to Euro Air instruction

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