

# Material Specification

## Nomex



KE FIBERTEC

AIR THE WAY YOU WANT

**MATERIAL:** Nomex material is woven by KE Fibertec Væveri (weaving mill) 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 KE Fibertec is woven in a twill weave using staple fibres to ensure largest possible textile surface and uniform air permeability.

**CONSTRUCTION:** Heatset, shrinkage- and permeability-stabilised material.

Type KE-Datasheet		NO130 33	NO290 16	NO370 17	NO460 18	NO700 19	Standard
<b>Weight (%) -/+5</b>	<b>g/m<sup>2</sup></b>	298	250	230	220	210	EN-ISO 5077
<b>Thickness (%) -/+10</b>	<b>mm</b>	0.44	0.55	0.57	0.55	0.5	EN-ISO 12127:1997
<b>Permeability</b>	<b>m<sup>3</sup>/m<sup>2</sup>/h 120 Pa Tolerance (%)</b>	130	290	370	460	700	EN ISO 9237:1995
		-9/+9	-14/+14	-9/+9	-8/+8	-5/+5	
<b>Tensile strength (%) -/+10</b>	<b>Warp / Weft N/50 mm</b>	>1300 / 1400	1600 / 1300	1600 / 1100	1600 / 1100	1700 / 880	EN-ISO 13934-1
<b>Resistance to tearing (%) -/+10</b>	<b>Warp / Weft N</b>	170 / 170	120 / 110	120 / 120	140 / 100	150 / 140	EN-ISO 13937:2
<b>*Filter class</b>		N/A	N/A	N/A	N/A	N/A	EN 779:2012
<b>**Shrinkage in wash</b>	<b>(%) 40°C</b>	-	-	-	-	-	EN-ISO 5077
<b>Melting point</b>	<b>°C</b>	371	371	371	371	371	
<b>Operating temperature</b>	<b>°C</b>	100/-45	100/-45	100/-45	100/-45	100/-45	
<b>Spontaneous ignition temp.</b>	<b>°C</b>	-	-	-	-	-	
<b>Water absorption</b>	<b>(%) at 90% RF</b>	5	5	5	5	5	
<b>Electrostatic resistance</b>	<b>Ohm</b>	≤3 x 10 <sup>8</sup>	≤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 54345-1
<b>Clean room classification</b>		N/A	N/A	N/A	N/A	N/A	ISO-14644-1
<b>Fire resistance</b>		B-S1-d0 N/A	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
<b>Oeko-Tex®</b>		Approved	Approved	Approved	Approved	Approved	Standard 100
<b>Cradle to Cradle®</b>		N/A	N/A	N/A	N/A	N/A	

\*KE measurement \*\*Washed and dried according to KE Fibertec instructions

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