

# 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 fiber 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 fibers to ensure largest possible fabric surface and uniform porosity.

**CONSTRUCTION:** Heat-set, shrinkage- and porosity-stabilized material.

Type KE-Datasheet		<b>NO8 33</b>	<b>NO16 16</b>	<b>NO20 17</b>	<b>NO25 18</b>	<b>NO38 19</b>	<b>Standard</b>	
<b>Weight (%) -/+5</b>	<b>oz/yd<sup>2</sup></b>	8.8	7.4	6.8	6.5	6.2	EN-ISO 5077	
<b>Thickness (%) -/+10</b>	<b>mil</b>	17	22	22	22	20	EN-ISO 12127:1997	
<b>Porosity at 0.5 inWG</b>	<b>CFM/ft<sup>2</sup> Tolerance %</b>	8 -9/+9	16 -14/+14	20 -9/+9	25 -8/+8	38 -5/+5	EN-ISO 9237:1995	
<b>Tensile strength (%) -/+10</b>	<b>Warp / Weft lb<sub>f</sub></b>	337 / 191	348 / 247	348 / 225	360 / 214	360 / 180	EN-ISO 13934-1	
<b>Resistance to tearing (%) -/+10</b>	<b>Warp / Weft lb<sub>f</sub></b>	38 / 38	27 / 25	27 / 27	31 / 22	34 / 31	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>%</b>	-	-	-	-	-	EN-ISO 5077	
<b>Operating temperature</b>	<b>°F</b>	+176/-40	+176/-40	+176/-40	+176/-40	+176/-40		
<b>Spontaneous ignition temp.</b>	<b>°F</b>	-	-	-	-	-		
<b>Water absorption in standard climate</b>	<b>%</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>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						Standard 100
<b>Cradle to Cradle®</b>		N/A						

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

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