

Technical Datasheet

ZOLTEK™ OX Felts

Non-woven, Needlepunched, Oxidized / Stabilized PAN Fiber (OPAN) Felts

DESCRIPTION

Produced from 100% ZOLTEK OX oxidized PAN fibers, needlepunched felts are for use as thermal/acoustical insulation in aerospace, automotive or general industrial high temperature applications. Valuable as a low cost – high performance fire or spark barrier.



MATERIAL OVERVIEW	FT0500-200		FT0575-095		FT0200-150		FT1700-110	
	SI	US	SI	US	SI	US	SI	US
Areal Weight*	500 g/m ²	15 oz/yd ²	576 g/m ²	17 oz/yd ²	203 g/m ²	6.0 oz/yd ²	1700 g/m ²	50 oz/yd ²
Width	203 cm	80 in	94 cm	37 in	152 cm	60 in	117 cm	46 in
Roll Length	100 m	109 yds	45 m	50 yds	45 m	50 yds	60 m	66 yds
Thickness	4.2 mm	0.17 in	6.4 mm	0.25 in	2 mm	0.08 in	12.7 mm	0.5 in
Fiber Input	1.7 or 2.2 dTex							
Construction	Needlepunch							

*Custom weights available

FIBER PROPERTIES		CHEMICAL COMPOSITION (%)		CHEMICAL RESISTANCE	
Density	1.36 g/cc min.	Carbon Content	62	Strong Acids	Good
Diameter	12.5 μ (1.7dTex)	Nitrogen	21.5	Weak Acids	Excellent
LOI	40%+	Oxygen	12	Strong Bases	Poor
Color	Black	Hydrogen	4.5	Weak Bases	Good
Resistivity	8x10 ⁸ ohms-cm	Sodium	< 0.1	Organic Solvents	Excellent
		Trace Metals	<0.01		

The properties listed in this datasheet do not constitute any warranty or guarantee of values. This information should only be used for the purposes of material selection. Please contact us for more details.

TYPICAL PACKAGING

ZOLTEK OX felts are wound on cardboard cone, sealed in plastic.

CERTIFICATION

ZOLTEK OX Felts are manufactured in accordance with ZOLTEK's written and published data. A Certificate of Conformance is provided with each shipment.

SAFETY

Obtain, read, and understand the Material Safety Data Sheet (SDS) before use of this or any other ZOLTEK product.

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