

ZOLTEK™ OX STAPLE FIBER

DESCRIPTION

ZOLTEK OX crimped staple fibers are oxidized/stabilized PAN fibers (OPAN) that are inherently fire resistant, thermally stable, exhibit excellent resistance to chemicals and solvents and are electrically nonconductive. Available in three denier sizes and various cut lengths, ZOLTEK OX staple fibers produce the highest quality nonwoven fabrics and the finest spun yarns on the market today.



MATERIAL PROPERTY	STANDARD DENSITY					HIGH DENSITY	
Density	1.37 g/cm ³ (0.0495 lb/in ³)					1.40 g/cm ³ (0.0506 lb/in ³)	
LOI	40%+					50%+	
Fineness	1.7 dTex 1.5 denier	2.2 dTex 2.0 denier			5.0 dTex 4.5 denier	2.2 dTex 2.0 denier	
Length	60 mm 2.3 in	50 mm 2.0 in	60 mm 2.3 in	74 mm 3.0 in	80 mm 3.1 in	60 mm 2.3 in	70 mm 3.0 in
Format	Crimped level 7.6 per inch (3.0 per cm)						

FIBER PROPERTIES	
Density	1.36 g/cc min.
Diameter	12.5μ (1.7 dTex)
LOI	40%+
Color	Black
Resistivity	8x10 ⁸ ohms-cm

CHEMICAL COMPOSITION (%)	
Carbon Content	62
Nitrogen	21.5
Oxygen	12
Hydrogen	4.5
Sodium	< 0.1
Trace Metals	< 0.01

CHEMICAL RESISTANCE	
Strong Acids	Good
Weak Acids	Excellent
Strong Bases	Poor
Weak Bases	Good
Organic Solvents	Excellent

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.

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TYPICAL PACKAGING

ZOLTEK OX Staple Fiber is packaged in bales weighing approximately 300kg (675lbs). Moisture Content & Sizings: Variable; based upon end application.

CERTIFICATION

ZOLTEK OX Staple Fiber is 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.