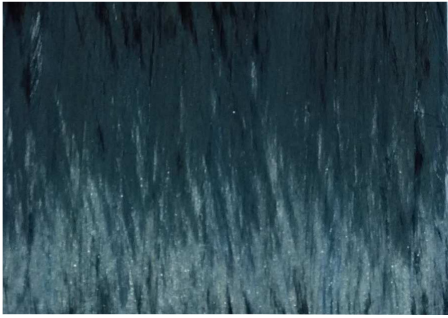


ZOLTEK™ OX PRODUCT FORMS



CONTINUOUS TOW

ZOLTEK OX continuous tow fibers are oxidized/stabilized PAN fibers which exhibit excellent resistance to chemicals and solvents and are electrically nonconductive. ZOLTEK OX continuous tow is suitable for stretch breaking into yarn, cutting into flock, crimping & cutting into staple fibers for nonwovens or yarn spinning.

MATERIAL PROPERTY	STANDARD DENSITY			HIGH DENSITY	
Density	1.37 g/cm ³ (0.0495 lb/in ³)			1.40 g/cm ³ (0.0506 lbs/in ³)	
LOI	~45%			~55%	
Fineness	1.7 dTex	2.2 dTex	5.0 dTex	1.7 dTex	2.2 dTex
Tensile Strength	18.5-23 cN/tex (2.1 - 2.6 gpd) 240 -300 MPa (34,800 psi)				
Filament Count	300K				
Elongation to Break	22% - 28%				

STRETCH-BROKEN YARNS

ZOLTEK OX stretch-broken yarns are oxidized/stabilized PAN fibers (OPAN). Yarns produced with ZOLTEK OX are knitted or woven into fabrics used in high-performance racewear apparel, industrial fire blocking blankets or high-temperature belting applications.



WORSTED COUNT	PLIES	DENIER	DECITEX	YIELD	TURNS PER INCH & "TWIST"
1/27	1	295 g/9000 m	328 g/10 km	30,486 m/kg (15,120 yds/lb)	10.0 - "Z"
2/27	2	590 g/9000 m	655 g/10 km	15,243 m/kg (7,560 yds/lb)	6.0 - "S"
1/10	1	797 g/9000 m	885 g/10 km	11,291 m/kg (5,600 yds/lb)	6.0 - "Z" or "S"
2/10	2	1,595 g/9000 m	1,770 g/10 km	5,645 m/kg (2,800 yds/lb)	5.0 - "S"
1/5	1	1,595 g/9000 m	1,770 g/10 km	5,645 m/kg (2,800 yds/lb)	6.0 - "Z"
2/5	2	3,190 g/9000 m	3,541 g/10 km	2,823 m/kg (1,400 yds/lb)	2.2 - "S"

STAPLE FIBERS

ZOLTEK OX staple fibers are oxidized/stabilized PAN fibers (OPAN) that are 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 lbs/in ³)		
LOI	~45%					~55%		
Fineness	1.7 dTex 1.5 denier		2.2 dTex 2.0 denier		5.0 dTex 4.5 denier		1.7 dTex 1.5 denier	2.2 dTex 2.0 denier
Length	50 mm 2.0 in	60 mm 2.4 in	74 mm 2.9 in	80 mm 3.1 in	100 mm 3.9 in	50 mm 2.0 in	60 mm 2.4 in	74 mm 2.9 in
Staple Crimp Level	>7.6 per inch (>3.0 per cm)							
Moisture Content	13 +/-3%							
Elongation to Break	22% - 28%							

