

Technical Datasheet

ZOLTEK™ PX30 Carbon Yarns

High-Performance Carbon Yarns

DESCRIPTION

ZOLTEK PX30 High-Performance Carbon Yarns are derived from ZOLTEK's high temperature batch carbonization process; the same process used to manufacture all of ZOLTEK's high purity ZOLTEK PX30 products. In addition to their high carbon content, the many surface fibrils protruding in various directions from the stretch broken and subsequently carbonized spun ZOLTEK PX30 High-Performance Yarns make them ideally suited for high performance applications including carbon/carbon and other refractory composites. ZOLTEK PX30 High-Performance Carbon Yarns have a density of 1.75 g/cc and a minimum carbon content of 99%.



APPLICATIONS

- High temperature packings and gaskets
- Preforms for high temperature carbon/carbon and carbon/ceramic composites
- Specialty applications for reinforcement in polymer-based composites

RECOMMENDED USE

High performance applications including carbon/carbon and other refractory composites.

TYPICAL PACKAGING

ZOLTEK PX30 Yarns are packaged as wound conical spools with a maximum diameter of 4.75 inches and a height of 6 inches. Spool weights range from 1.5 to 2.0 pounds, depending on yard denier.

PRODUCT CODE	DENIER (g/9000 m)	PLIES	TWIST	TURNS PER INCH	YIELD	
PX30YS0205	1700	2	S	2.5	5,755 m/kg	2,854 yds/lb
PX30YS0305	2,500	3	S	3.5	3,545 m/kg	1,758 yds/lb
PX30YS0405	3,500	4	S	2.5	2,590 m/kg	1,285 yds/lb
PX30YS0505	4,400	5	S	2.2	2,050 m/kg	1,016 yds/lb
PX30YS0605	5,000	6	S	2.2	1,780 m/kg	884 yds/lb
PX30YS0705	6,000	7	S	2.2	1,510 m/kg	750 yds/lb
PX30YS1005	8,500	10	S	2	1,060 m/kg	527 yds/lb

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.

SAFETY

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

CERTIFICATION

ZOLTEK PX30 Yarns are manufactured in accordance with ZOLTEK's written and published data. A Certificate of Conformance is provided with each shipment.

ZOLTEK™ PX30

