

Ceramic Yarn



Properties

Ceramic yarn is manufactured from high quality ceramic fiber and has been mechanically twisted to give it tensile strength. The yarn is available as E-glass, stainless steel wire or high temperature alloy wire reinforced yarn from 425 Tex up to 2500 Tex in single, two or three plies of single yarn twisted together in order to form a heavier yarn or higher strength.

Ceramic yarn contains approximately 18% organic fiber which burns out at high temperatures, causing some smoking and outgassing, but has no effect on the properties of the products.

Physical Properties

		1260	1430
Max.Temp.Rating		1260°C	1430°C
Melting Point		1760°C	1740°C
Temperature Limit of insert		Glass : 650°C	Alloy Wire : 1300°C
		Steel: 1100°C	
Ceramic Fiber Composition	Al ₂ O ₃	46 %	28-32 %
	SiO ₂	53%	52-56%
	ZrO ₂		14-18 %
Diameter of Ceramic Fiber		3-4 micron	3-4 micron
Thermal Conductivity		<0.18 W/mK (1000°C'de)	<0.18 W/mK (1000°C'de)
Shrinkage (24hr)		3 % (1200°C'de)	3 % (1400°C'de)
Lost on Ignition		18 %	18 %
Electrical		Glass : Non-Conductive	Alloy Wire : Non-Conductive
		Steel : Conductive	
Color		Beyaz	Beyaz

Physical Properties

Tex (g/km)	Ply	Thickness	m/kg ± 15%	yd/lb ± 15%
525	2	2.0 mm (0.80")	909	451
630	2	2.5 mm (0.098")	725	360
1000	2	3.0 mm (0.118")	459	228
2000	1	3.0 mm (0.118")	479	238
2250	1	3.5 mm (0.138")	400	198

Typical Applications

- High temperature gasket
- Production of textiles
- Sewing thread for high temperature textiles

*Bu bilgiler, de ğ i e ğ ilen tġ pik  zellikleri temsil etmektedir ve spesifikasyon amacıyla kullanılmamalıdır.
This data represents typical properties subject to variations and should not to be used for specification purposes.*