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Ceramic Ropes
Twisted
Round & Square Braid

Ceramic Textiles

Description

Ceramic Textiles are made from alumina-silica ceramic fiber, free of asbestos. These fiber materials can be used in different industrial applications under temperatures up to 2300 °F (1260 °C) and have excellent chemical stability and strong resistance to thermal shock and corrosion attack. Exceptions are hydrofluoric and phosphoric acids and concentrated alkalis. Ceramic Textiles also resist oxidation and reduction. If wet by water or steam, thermal properties are completely restored upon drying. No water of hydration is present.

Twisted Rope

These ropes are produced by twisting of ceramic fiber wicking together. Standard 3-ply twisted rope is relatively soft and low in density and is the most economical choice.

Round and Square Braids

The highest density of all Ceramic Fibre ropes, the round and square braids are produced by overbraiding around a core of ceramic fibre to achieve maximum resistance to mechanical abuse. In addition to its superior strength, round and square braids also exhibit minimal unraveling when cut.

Typical Product Properties		
	Square & Round Braided Ropes	Twisted Rope
Color	white	white
Width, (inch)	--	--
Normal Section or Diameters, (inch)	1/4,3/8,1/2,5/8, 3/4,1,1.25,1.5,2	1/4,3/8,1/2,5/8, 3/4,1,1.25,1.5,2
Normal thickness, (inch)	--	--
Density, pcf	33-36	20-33
Tensile strength grip, lb/f	110-150	75-100
Melting point, °F	3200	3200
Continuous use up to °F	2300	2300
Temperature Limit of Insert Material	--	--
Chemical Analysis (Normal, % weight based after firing)		
Alumina, Al₂O	47	47
Silica, SiO₂	53	53
Boron Oxide, B₂O₃	Trace	Trace
Calcium Oxide, CaO	Trace	Trace
Magnesium Oxide, MgO	Trace	Trace