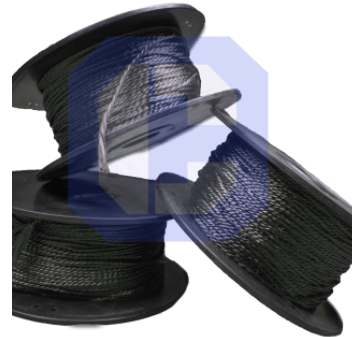


TECHNICAL DATA SHEET

Carbon Cordage

DESCRIPTION:

Carbon cordage is braided using carbonized polymer thread also known as tow. The raw material for the fibers is made from PAN or Rayon. The continuous fibers are manufactured and then carbonized through a series of rollers, combined into bundles, and collected into spools for easy use. The cords are comprised of 4,000 to 36,000 individual filaments in a braided structure. Maximum service temperature in an oxidizing environment is 400°C and in vacuum 2400°C.



Benefits

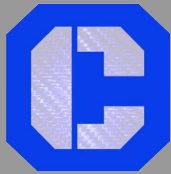
- High Strength
- Light Weight
- Excellent thermal stability
- Good corrosion resistance
- High tensile and chemically inert to most chemicals from pH 0-14, excluding strong oxidizers like nitric or sulphuric acids

Typical Applications

- Sewing or banding carbon or graphite felts in vacuum inert atmosphere furnaces or pump packing
- Wrapping of parts to provide insulation on certain sections and to hold parts in place
- Quick repair applications where bailing wire will not work

Technical Specifications Board

Type	Unit	4K Cordage	12K Cordage	12K Tight W. Cordage	18K Cordage	24k Cordage	24k Tight W. Cordage	36k Cordage
Temperature Rating	In vacuum env. In oxidizing env.	4352°F 2400°C 752°F 400°C	4352°F 2400°C 752°F 400°C	4352°F 2400°C 752°F 400°C	4352°F 2400°C 752°F 400°C	4352°F 2400°C 752°F 400°C	4352°F 2400°C 752°F 400°C	4352°F 2400°C 752°F 400°C
Diameter	Inches mm	0.025 0.64	0.033 0.85	0.033 0.85	0.039 1	0.059 1.5	0.059 1.5	0.079 2
Yield	yds/lb m/kg	1700 3,425	540 1,088	540 1,088	400 806	275 554	275 554	192 386
Breaking Strength	lbs Newtons	35 156	90 400	TBA TBA	120 535	165 735	TBA TBA	232 1,035
Knot Breaking Strength	lbs Newtons	11 49	43 191	TBA TBA	60 267	82 365	TBA TBA	110 490
Spool Sizes	Meters	150	150	150	150	150	150	125



TECHNICAL DATA SHEET

Carbon Cordage

Typical Physical Properties								
Type	Unit	4K Cordage	12K Cordage	12K Tight W. Cordage	18K Cordage	24k Cordage	24k Tight W. Cordage	36k Cordage
Minimum Order	Meters Spools	1200 8	1200 8	1200 8	1200 8	150 1	150 1	125 1
Elongation	%	0.7	2.5	TBA	2.5	5.7	2.1	1.14
Carbon Content	%	95	95	95	95	95	95	95
Alternate Sizing	-	Contact Us	Contact Us	Contact Us	Contact Us	Contact Us	Contact Us	Contact Us