



# TECHNICAL DATA SHEET

## Graphi-Braid

### DESCRIPTION:

Graphi-Braid is specialty treated flexible graphite yarn braided into graphite compression packing. The flexible graphite yarn is made from exfoliated high purity crystalline mineral graphite while maintaining all the characteristics of mineral graphite.



**Graphi-Braid 1000** - Braided from high purity flexible graphite yarn with high temperature inorganic carrier. This is the standard flexible style made of 100% graphite packing with an interlocking braid construction, excluding a few small sizes

**Graphi-Braid 1000W** - Braided from high purity flexible graphite yard with Inconel wire insert interlocking braid construction, excluding a few small sizes

**Graphi-Braid 1000C** - Braided from high purity flexible graphite yard on the body and reinforced with carbon fiber on the corners. The braid is interlocking and treated with a corrosion inhibitor for prevention of galvanic corrosion.

### Benefits

- Heat and chemical resistant.
- Pliable and conformable.
- Resilient and thermally conductive.

### Typical Applications

- Pumps and valves in a wide range of temperatures, chemicals, and pressures.
- Square Compression packing, and gasketing
- Used to seal rotating shafts and furnaces.

## Technical Specifications Board

Typical Physical Properties				
Type	Unit	Graphi-Braid 1000	Graphi-Braid 1000W	Graphi-Braid 1000C
Working Temperature	• Full Exposed to air	850	850	850
	• In steam or other mild oxidation medium	1800	2000	1800
	• In a non-oxidizing media	5400	5400	5400
pH	#	0-14	0-14	0-14
Pressure	psi	≤3700	≤4400	≤4000
Shaft Speeds	fpm	≤4000	≤4000	≤4000
Weight Loss (840°F)	%	8.0	8.0	8.0
Carbon Content of Packing	%	90	90	90
Graphite Purity	%	99	99	99
Ash Content	%	1	1	1
Sulfur	ppm	<1000	<1000	<1000
Leachable Chloride	ppm	<50	<50	<50