



**STYLE 1100-I
Braided Packing
Flexible Graphite, Wire
Reinforced**

CONSTRUCTION

Style 1100-I packing is manufactured from high purity flexible graphite that is expanded and formed into a weave-able yarn and then braided in a unique construction with wire reinforcement. The finished product retains all the inherent benefits of flexible graphite; while the wire reinforcement provides greater mechanical strength.

APPLICATION / SERVICE

Style 1100-I packing is particularly suited for use in high temperature, high pressure steam service. In addition, it can also handle most chemicals, acids and alkalis. This style is excellent for use in steam turbines, high temperature motor-actuated valves and for high pressure/high temperature valve applications in general.

SERVICE LIMITS		
Type	Description	Value
Temperature	Minimum	-400° F (-240° C)
	Maximum	840° F (450° C)
	Steam	1200° F (650° C)
Pressure	Static	5800 psi (400 bar)
Shaft Speed		200 fpm (1 m/s)
pH		0-14 (except strong oxidizers)



STYLE 1100TCP Braided Packing Flexible Graphite

CONSTRUCTION

Style 1100TCP packing is manufactured from high purity flexible graphite that is expanded and formed into a braid able yarn and then braided without binders or wire reinforcement. The finished product retains all the inherent benefits of flexible graphite: heat resistance, chemical inertness, low friction, self lubrication, and ready conformability.

APPLICATION / SERVICE

The outstanding properties of this style make it a truly multi-service packing capable of a wide variety of uses throughout a plant. This style may be used in valves, pumps, expansion joints, mixers and agitators in the hostile environments of hydrocarbon processing, pulp and paper, power generation, metal-working and other industries where effective sealing is vital.

SERVICE LIMITS		
Type	Description	Value
Temperature Limits:	Minimum	-400°F (-240°C)
	Maximum	840°F (450°C)
	Steam	1200°F (650°C)
Pressure Limits:	Rotating	435 psi (30 bar)
	Reciprocating	1450 psi (100 bar)
	Static	4351 psi (300 bar)
Shaft Speed:		5904 fpm (30 m/s)
pH:		0-14 (except strong oxidizers)



1414 High Temperature Non-Asbestos Valve Stem Packing

CONSTRUCTION

Style 1414 is a proprietary braid-over-core construction, using a special high temperature, Inconel reinforced fiber and a non-hardening core. The packing is impregnated with a high temperature resistant compound, and coated with fine particles of graphite to act as a surface lubricant. This style is also treated with a sacrificial material to alleviate electrolytic action.

APPLICATION / SERVICE

Style 1414 is a firm, high density, non-asbestos packing. It can handle steam, most chemicals, mild acids, and alkalis. It is excellent for use in steam turbines, high temperature motor-actuated slide valves, and in high pressure/high temperature valving in general.

SERVICE LIMITS		
Type	Description	Value
Temperature	Minimum	-
	Maximum	1200° F (650° C)
Pressure	Rotating	-
	Reciprocating	-
	Static	2500 psi (170 bar)
Shaft Speed		2500 fpm
pH		2-12



STYLE 2550/2551 Flexible Graphite Tape

CONSTRUCTION

Styles 2550 and 2551 crinkled flexible graphite tape are made from high purity graphite with no fibers, binders or other additives. Style 2550 crinkled tape is typically used as a stuffing box packing for pumps and valves. Style 2551 is the same as 2550 except that it is furnished with a self-adhesive backing strip to facilitate installation as a form-in-place gasket, thread sealant, or for facing jacketed and other difficult-to-seal gaskets.

APPLICATION / SERVICE

Styles 2550 and 2551 Flexible graphite covers a broad range of sealing applications. It handles most chemicals in the 0 - 14 pH range at cryogenic and elevated temperatures, and from vacuum to extreme pressures. It is used extensively in the chemical, automotive and pump and valve industries.

SERVICE LIMITS		
Type	Description	Value
Temperature	Minimum	-320°F (-200°C)
	Maximum	
	• In air	840°F (450°C)
	• In steam	1200°F (650°C)
Pressure	• In reducing or inert media	5400°F (3000°C)
	Static	2000 psi (137 bar)
pH		0-14
Typical Properties	Carbon Content	98% minimum
	Leachable Chlorides	50 ppm maximum
	Total sulfur	100 ppm maximum
STANDARD PACKAGING*		
Tape Thickness	Tape Width	Spool Length
.015	1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/8" 1-3/4", 2" *other thicknesses, widths, and spool lengths are available on special order	1/4" thru 1-1/8" -50'