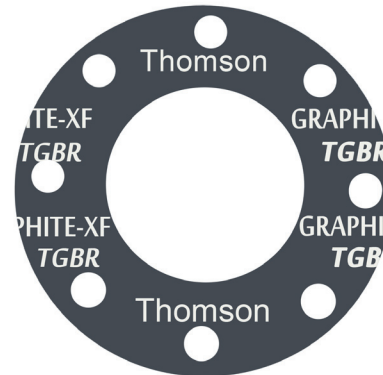


GRAPHITE-XF

Thomson Sheet Packing

TGBR Flexible Graphite

c/w 316SS .002" foil insert



Specifications

Construction

Laminated Flexible Graphite, .002" thick 316SS foil insert.

Temperature

Minimum: -328°F (-200°C)

Maximum:

In Air: +842°F (+450°C)

In Steam: +1202°F (+650°C)

In reducing Atmosphere: +5432°F (+3000°C)

Applications:

ANSI, API and MSS 150,300 & 400 class flanges up to 1,000 psi.

P x T max: 2,000,000 psi

pH range: 0-14 (except strong oxidizers)

Chemically resistant to wide variety of materials. Contact AR Thomson Group for specific applications or chemical resistance chart

Leachable chlorides on standard industrial flexible graphite products is less than 100 ppm.

“M & Y” Factors

	Thickness		“m” (no units)	“y” psi
	inches	mm		
TGBR	1/16	1.6	2.0	1000
	1/8	3.2	2.0	1000

Benefits

- Homogenous, pure flexible graphite, resistant to high temperature and pressure conditions.
- Excellent thermal stability, high thermal conductivity.
- Compressibility and recovery characteristics result in long term sealability in high cycle duty.
- Does not contain any fillers or binders to limit fluid compatibility.
- Stainless steel Inserts (Low creep relaxation) - offers greater torque retention.
- Easily conforms to surface irregularities.

Ideal for

- Gaskets in a broad range of chemicals, hydrocarbons and steam applications in the petrochemical, refinery, pulp and paper and power generation (both Fossil fuel & Nuclear plants).
- Fire Safe material.

Availability

- Custom shapes and standard flange gaskets.
- **Standard stock items:**
1/32", 1/16" & 1/8" thicknesses x 60" x 60"
*Other sheet sizes & thicknesses available upon request.

Actual performance may vary and is determined by factors unique to a given application. It is recommended that care be taken in the selection and application of materials for hazardous services and controlled testing be undertaken to determine suitability for a specific application.

Typical Properties:

Property	Unit	
Nominal Thickness	inch (+/- 10%)	0.030" – 0.120"
Density (graphite)	lb/ft ³	70
Ash content, maximum	%	2.0
Flat 316 stainless steel foil insert thickness	inch	0.002"
Number of inserts	-	1
Compressibility	%	40
Recovery	%	14
Creep relaxation	%	4
Stability under stress (DIN 52913)	N/m ²	48
ASME code factor "m" (for "standard" tightness)	-	2.0
ASME code factor "y" (for "standard" tightness)	psi	1000
Sealability according DIN 3535 (0.060")	ml/min	0.5
Tp max @ 15,000 psi gasket stress	psi	3227
PVRC design constants*: G _b	psi	816
A	psi	0.377
G _s	psi	0.066

NOTE: TGBR material can be cut easily with the appropriate hand tools, caution when handling.

*SS foil insert can have sharp edges.

AUTHORIZED DISTRIBUTOR

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