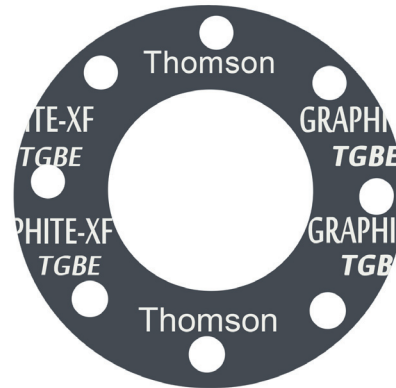


GRAPHITE-XF

Thomson Sheet Packing TGBE Flexible Graphite

c/w 316SS .004" perforated tanged insert



Specifications

Construction

Laminated flexible graphite, .004" thick S316 perforated tanged 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 & MSS 150,300 & 400 class flanges up to 1,000psi

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"	"y"
	inches	mm	(no units)	psi
TGBE	1/16	1.6	2.0	2500
	1/8	3.2	2.0	2500

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 better torque retention. No adhesives used in manufacturing TGBE = no volume loss.
- 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
Perforated 316 stainless steel insert thickness	inch	0.004"
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	2500
Sealability according DIN 3535 (0.060")	ml/min	0.5
Tp max @ 15,000 psi gasket stress	psi	2287
PVRC design constants*: G _b	psi	1400
a	psi	0.324
G _s	psi	0.010

NOTE: TGBE material is not recommended for Glass or Ceramic flanges - caution to be used when handling.

*SS insert edges can be sharp.

AUTHORIZED DISTRIBUTOR

ARTG10519