

Product Data Sheet

GF-Flexible Graphite

Description:

- Style GF is a high purity graphite sheet with .002” foil 316L stainless steel reinforcement. The sheet construction is minimum of 98% high purity flexible graphite without use of any fillers or binders, which is bonded to the stainless steel core (Foil). This style offers excellent sealing properties for applications requiring lower bolt loads. Flexible graphite is pliable enough to “flow” into irregular flange surfaces while maintaining a positive seal and exhibiting low “creep relation” properties. In addition, this style provides outstanding chemical resistance for nearly all media with the exception of concentrated and extreme oxidizing acids.
- Resistant to many chemicals including:
 - Steam
 - Mild organic and inorganic acids
 - Petroleum
 - Diluted alkalis
 - General Chemicals



Typical Properties	
316/316L Insert Thickness	0.002
Density	70 lb./ft ³
ASTM Compressibility	30%-40%
ASTM Recovery	15%-20%
Creep Relaxation	<4%
Ash Content (Max)	2.0%
Total Chlorine (Max)	50 ppm
ASME Code “M Factor”	2
ASME Code “Y Factor”	900
Temperature Range	Cryogenic To 850° F in oxidizing environment Up to 1250° F in inert or reducing environment
Construction and Availability	
Graphite	98% Purity Min
Reinforcement	Approx. 0.002”
Sheet Size	60” x 60”
Thickness Range:	1/16” 1/8” 3/16”