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Gasket Sheet

Style

**Flexible Graphite
316 SS Foil Insert**

Product Description:

Laminated Graphite Sheets with reinforcement .002" thick 316 stainless steel foil insert, adhesive bond. Made from Flexible Graphite Industrial Grade(99% carbon)

Main Characteristics

Excellent Sealability that meets stringent emission regulations
High Temperature Resistant
Chemical Resistant
Blow-out Resistant
Non-aging, no creep relaxation
Meets most industrial fluid sealing service requirements
(Recommended for 150 and 300 class service)

Chemical Compositions of Flexible Graphite

Carbon: 99% Min.; Ash: 0.8% Max; Leachable Chloride: 30ppm Max

Typical Properties

Compressibility (ASTM F-36) 42%
Recovery (ASTM F36) 17%
Creep Relaxation (ASTM F-38) Less than 5%
M Factor: 2 (Smooth Flange Surface)
Y Stress: 900 psi (6 MPa) (Smooth Flange Surface)
Maximum Gasket Unit Load: 24,000 psi (165 MPa)

Gasket Constants per ASME:

Gb: 816 psi (5.62 N/mm²)
A: 0.377
Gs: 0.066 psi (4.5x10⁻⁴ N/mm²)

Working Temperature Range:

Oxidizing Environment, such as air: -400° F to 950° F (-240°C to 510°C)
Mild Oxidizing Environment of most gasket applications: -400° F to 1500° F(-240°C to 850° C)
Non-oxidizing Environment: Up to 1800° F, the limit of Stainless Steel Insert (Limit of Graphite is 5400° F)

Applications

This Material is an ideal sheet gasket material for most industrial fluid sealing applications. It is resistant to corrosive chemicals, high temperature, and high pressure. Can be used in refineries, chemical and petrochemical plants, paper mills, mines and other industrial fields.

Standard Sizes

Thickness: 1/32", 1/16", 1/8" Sheet Size: 39.4" x 39.4"(Meter Size) and 60" x 60"