

Flexible Graphite Sheet 316SS Foil Insert

Application:

Style 2661/1661 flexible graphite sheet has pressure-temperature sealability capabilities that are far superior to all compressed fiber, reinforced sheet material. It is resistant to chemical attack by virtually all organic and inorganic fluids with the exception of concentrated, highly oxidizing acids.

Gaskets cut from Style 2661/1661 flexible graphite sheet seal with low to moderate bolt loads and because of very low creep relaxation, re-torquing is rarely required. Flexible graphite conforms to irregular flange sealing surfaces and readily flows into flange irregularities enabling it to seal both smooth and coarse surface finishes.

Construction:

Style 2661/1661 is a flexible graphite sheet reinforced with a 316SS foil, .002" thick. The flexible graphite sheet is made from exfoliated graphite flake which is compressed into foil by a carefully controlled calendaring process. In this process, the expanded flake particles are mechanically locked together without the use of fibers, binders or other additives. Sheets of graphite foil are then adhesive bonded and laminated to the required

Availability	Size: 39 x 39 in 60 x 60 in
	Thickness: 1/64"* , 3/32"* , 1/32", 3/16"* , 1/16", 1/8", 1/4",
Temperature	Minimum Service: -418° F (-250°C)
	Maximum Service: 842° F (450)°C
	In air: 842° F (450°C)
	In steam: 1202° F (650°C)
Pressure	In reducing or inert media: 5432° F (3000°C)
	1110 PSI (77 Bar)

*available on special request

Typical Physical Properties:

Density	62.4 lbs/ft ³
Compressibility - Tested under 5000 psi	35%
Recovery - Tested under 5000 psi	18%
Tensile Strength Across Grain	5000 psi
Creep Relaxation	12%
Compressive Strength	24,000psi
Carbon Content	98% minimum
Total Sulfur	≤750 ppm maximum
Leachable Chlorides	<30 ppm maximum

Properties and application parameters shown throughout this data sheet are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult TEADIT. Failure to select proper sealing products could result in property damage and/or serious personal injury. Specifications are subject to change without notice; this edition cancels all previous issues.