



STYLE 2663

Flexible Graphite Sheet 316ss Tang Inserted

CONSTRUCTION

Style 2663 is a flexible graphite sheet reinforced with a 316ss tanged core, .005" thick. The flexible graphite sheet is made from exfoliated graphite flake which is compressed into foil by a carefully controlled calendering process. In this process, the expanded flake particles are mechanically locked together without the use of fibers, binders or other additives. Sheets of foil are then adhesive bonded and laminated to the required thickness with the 316ss tanged core in the center.

APPLICATION / SERVICE

Style 2663 flexible graphite sheet has pressure-temperature sealability capabilities that are far superior to all asbestos reinforced and non-asbestos reinforced sheet products. 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 2663 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.

SERVICE LIMITS

Type	Description	Value
Temperature Limits:	Minimum	-328°F (-200°C)
	Maximum	
	• In air	840°F (450°C)
	• In steam	1200°F (650°C)
Pressure Limits:	• In reducing or inert media	5400°F (3000°C)
		2000 psi (140 bar)
Physical Properties:	Compressibility	35% (Tested under 5000 psi)
	Recovery	18% (Tested under 5000 psi)
	Creep Relaxation	10%
	Tensile Strength	5000 psi
	Compressive Strength	35,000 psi
	Density	62.4 lbs/ft³
Chemical Composition:	Carbon Content	98% minimum
	Total Sulfur	1200 ppm maximum
	Leachable Calories	50 ppm maximum
Available Sheet Sizes:	Thickness	1/32", 1/16", 1/8"
	Sheet Sizes	39.4" x 39.4"

Properties and application parameters shown throughout this datasheet 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 supersedes all previous issues.