



## **FLEXIBLE GRAPHITE SHEET**

### **STYLE FG-SS Flexible Graphite Sheet REINFORCED 316SS FOIL, .002" THICK**



**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.

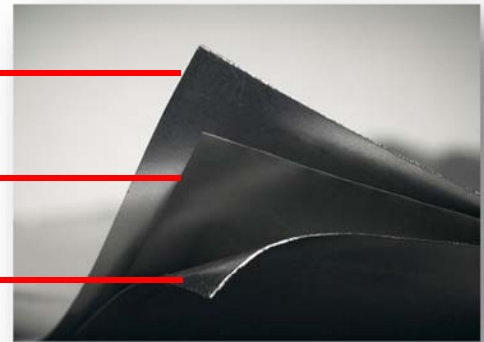
**STYLE FG-SS** Standard industrial grade sheet laminated with an adhesive bond on both sides of a .002" thick 316 stainless steel foil insert. Used where high performance and handle ability are important.



Flexible Graphite

316SS Foil Insert

Flexible Graphite



### **ADVANTAGES**

- Pressure-temperature seal ability capabilities that are far superior to all asbestos reinforced and non-asbestos reinforced sheet products
- Low to moderate bolt loads and because of very low creep relaxation
- Re-torqueing is rarely required
- Conforms to irregular flange sealing surfaces and readily flows into flange irregularities enabling it to seal both smooth and coarse surface finishes
- Resistant to chemical attack by virtually all organic and inorganic fluids
- Exception of concentrated, highly oxidizing acids.
- **FLEXIBLE GRAPHITE SHEET - REINFORCED 316SS FOIL, .002" THICK  
MIL-DTL-24696C TYPE 1 IS AVAILABLE UPON REQUEST**



OIL / GAS



GAS TURBINE / DIESEL EXHAUST



POWER

### SERVICE LIMITS

Type	Description	Value
Temp. Limits:	Minimum	-328°F (-200°C)
	Maximum	
	In air	840°F (450°C)
	In steam	1200°F (650°C)
	In reducing or inert media	5400°F (3000°C)
Pressure Limits:		2500 psi (175 bar)
Typical Properties:	Compressibility	35% (Tested under 5000 psi)
	Recovery	18% (Tested under 5000 psi)
	Creep Relaxation	12%
	Tensile Strength	5000 psi
	Compressive Strength	35,000 psi
	Density	62.4 lbs/ft <sup>3</sup>
	Carbon Content	98% minimum
	Total sulfur	1200 ppm maximum
	Leachable Chlorides	50 ppm maximum
PART NUMBER / SHEET SIZE		
SDS-03244-FGSS / 1/32" X 39.4" X 39.4"		SDS-03255-FGSS / 1/32" X 60" X 60"
SDS-06244-FGSS / 1/16" X 39.4" X 39.4"		SDS-06255-FGSS / 1/16" X 60" X 60"
SDS-12544-FGSS / 1/8" X 39.4" X 39.4"		SDS-12555-FGSS / 1/8" X 60" X 60"
SDS-25044-FGSS / 1/4" X 39.4" X 39.4"		SDS-25055-FGSS / 1/4" X 60" X 60"

**NAVY DRILL, COMMERCIAL DRILL AND CUSTOM PRE-CUT GASKETS ARE AVAILABLE**