

## Flexible Graphite Sheet

STYLE 1308

### Construction/Description

#### Flexible Graphite Sheet Style 1308

Style 1308 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. The sheets are then adhesively bonded and laminated to the required thickness.

### Application/Service

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 flexible graphite sheet seal with low to moderate bolt loads. Re-torquing is rarely required due to very low creep relaxation. Flexible graphite conforms to irregular flange sealing surfaces and readily flows into flange irregularities enabling it to seal both smooth and coarse surface finishes.

### Product Data

Temperature Limits				Pressure Limits	Chemical Composition		
Minimum	Maximum				Carbon Content	Total Sulfur	Leachable Chlorides
	In Air	In Stream	In reducing or inert media				
-328°F -200°C	900°F 480°C	1200°F 650°C	5400°F 3000°C	2000 PSI (140 bar)	98% minimum	1200 ppm maximum	50 ppm maximum

Physical Properties						Available Sheet Size	
Compressibility	Recovery	Creep Relaxation	Tensile Strength	Compressive Strength	Density	Thickness	Sheet Size
40% (Tested under 5000 psi)	18% (Tested under 5000 psi)	5%	650 psi	35,000 PSI	62.4 lbs/ft <sup>3</sup>	1/32", 1/16", 1/8"	39.4" x 39.4"

#### *Service is Our Business*

All technical advise and recommendation are rendered by Seller free of charge. While based on data believed to be reliable, seller assumes no responsibility.

## Flexible Graphite Sheet 316ss Tang Inserted

STYLE 1309

### Construction/Description

#### Flexible Graphite Sheet 316ss Tang Inserted Style 1309

Flexible Graphite Sheet 316ss Tang Inserted is reinforced with a 316ss tanged core, .005" thick. The flexible graphite sheet is compressed into foil by a carefully controlled calendaring process, made from exfoliated graphite flake which is mechanically locked together without the use of fibers, binders, or other additives. The sheets are then adhesively bonded and laminated to the required thickness with the 316ss tanged core in the center.

### Application/Service

Flexible graphite sheet has the 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 flexible graphite sheet seal with low to moderate bolt loads. Re-torquing is rarely required due to very low creep relaxation. Flexible graphite conforms to irregular flange sealing surfaces and readily flows into flange irregularities enabling it to seal both smooth and coarse surface finishes.

### Product Data

Temperature Limits				Pressure Limits	Chemical Composition		
Minimum	Maximum				Carbon Content	Total Sulfur	Leachable Chlorides
	In Air	In Stream	In reducing or inert media				
-328°F -200°C	900°F 480°C	1800°F 980°C	5400°F 3000°C	2000 PSI (140 bar)	98% minimum	1200 ppm maximum	50 ppm maximum

Physical Properties						Available Sheet Size	
Compressibility	Recovery	Creep Relaxation	Tensile Strength	Compressive Strength	Density	Thickness	Sheet Size
35% (Tested under 5000 psi)	18% (Tested under 5000 psi)	10%	5,000 psi	35,000 PSI	62.4 lbs/ft <sup>3</sup>	1/32", 1/16", 1/8"	39.4" x 39.4"

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## Flexible Graphite Sheet 316ss Foil Inserted

STYLE 1310

### Construction/Description

#### Flexible Graphite Sheet 316ss Foil Inserted Style 1310

Flexible Graphite Sheet 316ss Foil Inserted is reinforced with 316ss, .002" thick. The flexible graphite sheet is compressed into a foil by a carefully controlled calendaring process, made from exfoliated graphite flake which is mechanically locked together without the use of fibers, binders, or other additives. The sheets are then adhesively bonded and laminated to the required thickness with the 316ss foil core in the center.

### Application/Service

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, high oxidizing acids.

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

### Product Data

Temperature Limits				Pressure Limits	Chemical Composition		
Minimum	Maximum				Carbon Content	Total Sulfur	Leachable Chlorides
	In Air	In Stream	In reducing or inert media				
-328°F -200°C	900°F 480°C	1800°F 980°C	5400°F 3000°C	2000 PSI (140 bar)	98% minimum	1200 ppm maximum	50 ppm maximum

Physical Properties						Available Sheet Size	
Compressibility	Recovery	Creep Relaxation	Tensile Strength	Compressive Strength	Density	Thickness	Sheet Size
35% (Tested under 5000 psi)	18% (Tested under 5000 psi)	12%	5,000 psi	35,000 PSI	62.4 lbs/ft <sup>3</sup>	1/32", 1/16", 1/8"	39.4" x 39.4"

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