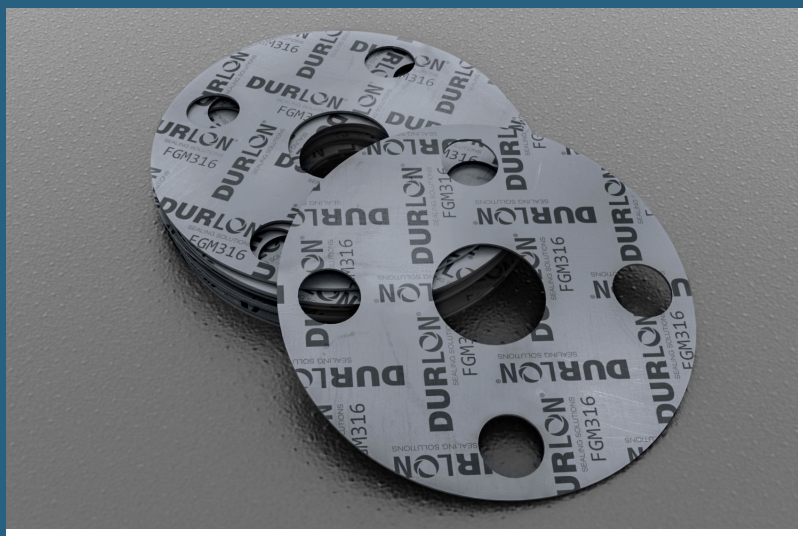

DURLON®
Flexible Graphite

Homogeneous, 316SS Foil Insert
316SS Tang Insert, 316SS Multilayer

Durlon® Flexible Graphite is unaffected by heat over a wide range of temperatures. It exhibits low electrical resistivity and high thermal conductivity and is suitable for cryogenic temperatures and is available in several styles.

These include homogeneous sheet and laminated styles with various types of core materials. Durlon® Flexible Graphite can also be special ordered with various inhibitors, grades of graphite, and core materials to suit specific critical applications.

INDUSTRY APPLICATIONS:

- Chemical Processing
- General Industry
- OEM Services
- Oil & Gas
- Petrochemical
- Power Generation
- Refining

CHARACTERISTICS AND BENEFITS:

- Impermeable to gases and liquids
- Suitable for service over a wide range of pressures and temperatures
- Resists thermal shock
- Maintains excellent sealability
- Does not age, shrink or harden
- Seals easily under low to moderate bolt loads
- High chemical resistant

FGS95 - Physical Properties	
Temperature: Min Max, in air Max, in steam	-260°C (-450°F) 454°C (850°F) 650°C (1,200°F)
Pressure, Max, bar	207 (3,000 psi)
Compressibility, % ASTM F36	35-40
Recovery, % ASTM F36	20
Creep Relaxation, % ASTM F36	5
Ignition Loss, % @ 454°C (850°F) @ 650°C (1200°F)	1 8
Sealability, ASTM F2378	0.4 cc/min
ASTM F104 & F868 Line Call Outs	F104-F517000B1M3
Carbon Content	≥98%

Nominal Thickness*	Sheet Sizes	
	Inches	mm
1/32" (0.8mm)	39.4 x 39.4	1,000 x 1,000
	59.1 x 59.1	1,500 x 1,500
1/16" (1.5mm)	39.4 x 39.4	1,000 x 1,000
	59.1 x 59.1	1,500 x 1,500
1/8" (3.0mm)	39.4 x 39.4	1,000 x 1,000
	59.1 x 59.1	1,500 x 1,500

*More thicknesses available by special order, depending on material.

FGS95: Standard industrial grade sheet containing no binders or resins. Mainly used in industrial applications such as oil refineries, power plants and chemical process plants.

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FGL316 - Physical Properties	
Temperature: Min Max, in air Max, in steam	-260°C (-450°F) 454°C (850°F) 650°C (1,200°F)
Pressure, Max, bar	207 (3,000 psi)
Compressibility, % ASTM F36	35-40
Recovery, % ASTM F36	18
Creep Relaxation, % ASTM F36	5
Ignition Loss, % @ 454°C (850°F) @ 650°C (1200°F)	1 6
Sealability, ASTM F2378	0.4 cc/min
ASTM F104 & F868 Line Call Outs	F868-9FMF2
Carbon Content	≥98%

FGL316: Standard industrial grade sheet laminated with an adhesive bond on both sides of a 0.002" thick 316 stainless steel foil core. This product is used where high performance and handling are important.

FGT316 - Physical Properties	
Temperature: Min Max, in air Max, in steam	-260°C (-450°F) 454°C (850°F) 650°C (1,200°F)
Pressure, Max, bar	207 (3,000 psi)
Compressibility, % ASTM F36	35-40
Recovery, % ASTM F36	20
Creep Relaxation, % ASTM F36	5
Ignition Loss, % @ 454°C (850°F) @ 650°C (1200°F)	1 6
Sealability, ASTM F2378	0.8 cc/min
ASTM F104 & F868 Line Call Outs	F868-9FMF1
Carbon Content	≥98%

FGT316: Standard industrial grade sheet mechanically bonded on both sides of a 0.004" thick 316 stainless steel tang core. This product is used where stresses and pressures are high and improved handling is important.

FGM316 - Physical Properties	
Temperature: Min Max, in air Max, in steam	-260°C (-450°F) 550°C (1,022°F) 650°C (1,200°F)
Pressure, Max, bar	250 (3,625 psi)
Compressibility, % ASTM F36	30-40
Recovery, % ASTM F36	10-15
Creep Relaxation, % ASTM F36	5
Ignition Loss, % @ 454°C (850°F) @ 650°C (1200°F)	<1 <3
Sealability, ASTM F2378	0.4 cc/min
ASTM F104 & F868 Line Call Outs	F868-9FMF2
Carbon Content	≥98%

FGM316: Inhibited grade sheet laminated with multiple layers of 0.004" thick 316 stainless steel foil core. This product is used in applications with high mechanical stress or pressure, above average burst resistance, exceptional rigidity, and suitable to cut gaskets with narrow strips.

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