

# Flexible Graphite

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



**FGS95**



**FGL316**



**FGT316**



**FGM316**

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<sup>®</sup> Flexible Graphite can also be special ordered with various inhibitors, grades of graphite and core materials to suit specific critical applications. Contact your representative for more information.

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

**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:** 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:** 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, fire safe and suitable to cut gaskets with narrow strips.

Material	FGS95	FGL316	FGT316	FGM316
Temp.: Min	-260°C (-450°F)	-260°C (-450°F)	-260°C (-450°F)	-260°C (-450°F)
Max, in air	454°C (850°F)	454°C (850°F)	454°C (850°F)	550°C (1,022°F)
Max, in steam	650°C (1,200°F)	650°C (1,200°F)	650°C (1,200°F)	650°C (1,200°F)
Pressure, max, bar	207 (3,000 psi)	207 (3,000 psi)	207 (3,000 psi)	250 (3,625 psi)
Compressibility, % ASTM F36	35-40	35-40	35-40	30-40
Recovery, % ASTM F36	20	18	20	10-15
Creep Relaxation, % ASTM F36	5	5	5	5
Ignition Loss, % @ 454°C (850°F)	1	1	1	<1
@ 650°C (1200°F)	8	6	6	<3
Sealability, cc/min ASTM F2378	0.4	0.4	0.8	0.4
ASTM F104 & F868 Line Call Outs	F104-F517000B1M3	F868-9FMF2	F868-9FMF1	F868-9FMF2
Carbon Content	≥ 98%	≥ 98%	≥ 98%	≥ 98%

**Warning:** Durlon<sup>®</sup> gasket materials should never be recommended when both temperature and pressure are at the maximum listed. Properties and applications stated are typical. No applications should be undertaken by anyone without independent study and evaluation for suitability. Never use more than one gasket in one flange joint and never reuse a gasket. Improper use or gasket selection could cause property damage and/or serious injury. Data reported is a compilation of field testing, field service reports and/or in-house testing. While the utmost care has gone into publishing the information contained herein, we assume no responsibility for errors. Specifications and information contained in this flyer are subject to change without notice. This edition cancels and obsoletes all previous editions. REV. 2019/04