

DURLON®

Flexible Graphite

APPLICATION:

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. This product is suitable for applications in the automotive, refining and petrochemical plant processes.

COMPOSITION:

DURLON® Flexible Graphite is available in several styles. These include homogeneous sheet and laminated styles with various types of core materials.

AVAILABLE STYLES:

FGS95 Standard industrial grade sheet containing no binders or resins. 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 .002" thick 316 stainless steel foil insert. Used where high performance and handleability are important.

FGT316 Standard industrial grade sheet mechanically bonded on both sides of a .004" thick 316 stainless steel metal tang core. Used where stresses and pressures are high and improved handleability is important.

SERVICE RANGE:

Temperature Range:	1200°F (650°C) Steam
Oxidizing:	-450 to 750°F (-260 to 400°C)
Non-Oxidizing:	-450 to 5,400°F (-260 to 3,000°C)
Pressure, max:	3,000 psi (20.7 MPa)
Fluid Resistance - pH Range:	0 to 14 at room temperature

*For applications above Class 300, consult your representative.

Typical Physical Properties

Based on 1/16" thickness

Test Method	FGS95	FGLPE	FGL316	FGT316
ASTM F36 Compressibility, % Recovery, %	35-40 20	35-40 18	35-40 18	30-35 20
ASTM F38 Creep Relaxation, %	5	5	5	5
Ignition Loss, % @ 850°F (454°C) @ 1200°F (650°C)	1 8	1 8	1 6	1 6
ASTM F37, Sealability Fuel A, mL/hr Nitrogen, mL/hr	0.5 1.0	0.5 2.0	0.5 2.0	0.5 5.0
DIN 3535 - Gas Permeability Nitrogen, cc/min	0.40	0.40	0.40	0.80
ASTM F104 & F868 Line Call-Outs:	F104 F517000B1M3	F868 9FPF2	F868 9FMF2	F868 9FMF1

This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties but should not be used to establish specification limits nor used alone as the basis of design.

Warning: Durlon gasket materials should never be recommended when both the temperature and the pressure are at the maximums listed. Properties and applications shown are typical. No application 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 personal injury. The 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. The information and specifications contained in this website are subject to change without notice. This revision cancels and obsoletes all previous editions.

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