

GrafTech GRAFOILÂ® GHR Standard Fluid Sealing Laminate, Metal Reinforced

Category : Carbon , Graphite

Material Notes:

GRAFOILÂ® Grade GHR is an uncured laminate made with GRAFOILÂ® Grade GTB flexible graphite adhesively bonded to both faces of a 0.002" thick flat 316 or 316L stainless steel insert. Surface identifiable, the laminate is branded with the GRAFOILÂ® grade and source guarantee. Grade GHR is suitable for standard industrial fluid sealing applications as well as applications in: chemical, petrochemical, refinery, steam service, cryogenic, and ASME class 150 & 300 flanges. While maintaining an effective seal, GRAFOILÂ® material exhibits virtually no creep relaxation. As a result, the need for periodic bolt tightening is greatly reduced. Laminate Construction: GRAFOILÂ® Grade GTB ? 0.002" thick flat 316 or 316L stainless steel (per ASTM F-A-240 and AMS 5524) ? GRAFOILÂ® Grade GTB

Order this product through the following link:

http://www.lookpolymers.com/polymer_GrafTech-GRAFOIL-GHR-Standard-Fluid-Sealing-Laminate-Metal-Reinforced.php

Physical Properties	Metric	English	Comments
Bulk Density	1.12 g/cc	0.0405 lb/in ³	Standard; Graphite
Thickness	810 microns	31.9 mil	Standard; Laminate
	1570 microns	61.8 mil	Standard; Laminate
	3100 microns	122 mil	Standard; Laminate

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	26.2 MPa	3800 psi	additive of steel and GRAFOILÂ® flexible graphite
Compression Set	85 %	85 %	after 5000 psi load
	@Pressure 34.5 MPa	@Pressure 5000 psi	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	525 Â°C	977 Â°F	
Minimum Service Temperature, Air	-240 Â°C	-400 Â°F	

Descriptive Properties	Value	Comments
"m" Factor	2	ASME Gasket Factor
"y" Stress (psi)	900	ASME Gasket Factor
Compressibility (%)	40	at 5000 psi load
Max Gasket Unit Load (psi)	24000	ASME Gasket Factor
Resistance in #1 Oil (%)	<33	Weight change

Descriptive Properties	Value	Comments ^{increase}
Resistance in #3 Oil (%)	<12	Thickness increase
	<35	Weight change

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