

CRANE-FOIL™

FLEXIBLE GRAPHITE GASKET

Technical Specification



Product Description

John Crane's Crane-foil™ is a premium grade flexible graphite gasket material used in a wide range of services, where conventional gaskets will not withstand extreme temperature and/or pressures. Crane-foil gaskets feature the benefits of graphite including resistance to most fluids, high temperatures, and pressure changes. They provide excellent sealing, preventing product leakage, and minimizing change outs. Resistance to cold flow, weathering and aging make Crane-foil ideal where increased reliability is necessary. Crane-foil has excellent compressibility characteristics under moderate loads, further reducing costs associated with installation and bolt retorquing.

Stainless steel inserted gaskets provide additional strength for higher pressure applications and additional resistance to damage from handling and installation. They are highly recommended for narrow cross section gaskets.

Performance Capabilities

- Temperature: Oxidizing: -240°C to 455°C/ -400°F to 850°F Non-Oxidizing: -240°C to 3000°C/-400°F to 5432°F Steam: up to 650°C/1200°F Stainless Inserted: -240°C to 1000°C/-400°F to 1800°F
- Pressure: up to 136 bar/2000 psi
- Stainless Inserted: Up to 680 bar/10,000 psi
- P x T Maximum: 1,600,000 (°F x psi) / 58,000 (°C x bar)
- pH Range: 0-14 (Except strong oxidizers)

Construction/Features

Crane-foil sheet and gaskets are manufactured from high purity exfoliated graphite, precisely calendered into a foil. It contains no fillers or binders that can lead to fluid contamination. Standard Crane-foil is 97% pure graphite at a density of 70 lb/ft with corrosion inhibitors and special densities available upon request.

- Style 245: Homogeneous or laminated industrial grade
- Style 242: Mechanical bonded, stainless steel wire mesh inserted
- Style 247: Mechanical bonded, stainless steel perforated insertedd
- Style 264: Adhesive bonded, stainless steel inserted

Standard Sizes

Roll Form: Style 245: Width: 24" x 24"

Thickness: 0.005", 0.10", 0.015", 0.025"

Length: Up to 100 ft.

Sheet Form: Styles 242, 247, 264 Square: 24" x 24", 40" x 40", 60" x 60" * Thickness: 1/32", 1/16", 3/32", 1/8"

All styles are available cut to size.

*Style 247 not available in 60"x 60" sheet



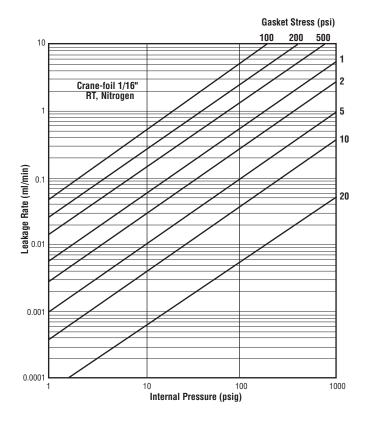
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Density	70 lb/ft ³ (1.1 gm/cc)	Thermal conductivity	
Min. carbon content	95%	Length/width	960 Btu-in/ft ₂ -H-°F
Max. leachable chloride content	100 ppm		140W/M-K
Compressibility (ASTM F-36)	40%	Thru thickness	36 Btu-in/ft ₂ -H-°F
Recovery (ASTM F-36)	20%		4W/M-K
Sealability (ASTM F-37)	0.5 ml/hr	Nuclear radiation resistance	
Creep relaxation (ASTM F-38)	5%	5.5x10 ²¹ NVT@1000°C	No apparent effect
Tensile strength	750 psi (5.2 MPa)	1.5x10 ⁹ RADS gamma radiation	No apparent effect
Co-efficient of friction against steel			
@ 4 psi (.03 MPa)	.018		
@ 8 psi (.05 MPa)	.052		
@ 12 psi (.08 MPa)	.157		

Leakage-Internal Preassure-Gasket Stress Chart





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