

Foil Graphite



SPECIFICATION SHEET

Key Features: impermeable to gases and liquids; inert; resistant to radiation; excellent resistance to thermal shock; soft and flexible with high recovery and no ageing

Operating Parameters:

Min. Temp. -200°C

Max. Temp. +500°C (intermittent, dry)

Max. Temp. +650°C (intermittent, steam)

Max. Pressure: 140 bar (2030 psi)

Material:

Manufactured from expanded graphite foil laminate with reinforced 316 stainless steel

Thicknesses Available: 1.5mm; 3mm

Colour: Black

TECHNICAL DATA

Property	Value	Unit
Density	1.1	g/cm ³
Ash Content (DIN 51 903)	≤1.0	%
Leachable Chloride content	≤50	ppm
Material of Insertion (DIN/ASTM)	1.4401/SS (foil)	-
Thickness of Insertion	0.05	mm
Gas Permeability	<0.60	cm ² /min
Spec. Leak Rate	-	mg/s/m
Stress Relaxation (DIN 52 913, 16hrs @ 300°C)	>45	mg/s/m
Compressibility (ASTM F 36A-66)	40 - 50	%
Recovery (ASTM F 36A-66)	10 - 15	%
Minimum Gasket Assembly Stress	10	N/mm ²
M DIN Factor	1.3	-
Maximum Permissible Gasket Stress	100	N/mm ²
Maximum Permissible Gasket Stress (under service conditions)	60	N/mm ²
M ASTM Factor	3	-
Y PSI ASTM Factor	900	-

1404 ARTHUR PORTER DRIVE, BURBUSH, HAMILTON, NZ

PHONE: 0800 238837

EMAIL: SALES@BETTERINDUSTRIAL.CO.NZ WEB: WWW.BETTERINDUSTRIAL.CO.NZ