

# Tanged 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 reinforced with tanged 0.10mm thick 316 stainless steel

**Thicknesses Available:** 1.5mm; 3mm

**Colour:** Black

## TECHNICAL DATA

Property	Value	Unit
Density	1.1	g/cm <sup>3</sup>
Ash Content (DIN 51 903)	≤1.0	%
Leachable Chloride content	≤50	ppm
Material of Insertion (DIN/ASTM)	1.4401/SS (tanged)	-
Thickness of Insertion	0.1	mm
Gas Permeability	<0.60 (for 1.5mm thick) <1.0 (for 3mm thick)	cm <sup>2</sup> /min
Spec. Leak Rate	-	mg/s/m
Stress Relaxation (DIN 52 913, 16hrs @ 300°C)	>48 (for 1.5mm thick) >45 (for 3mm thick)	mg/s/m
Compressibility (ASTM F 36A-66)	30 – 35 (for 1.5mm) 30 – 40 (for 3mm)	%
Recovery (ASTM F 36A-66)	15 – 20	%
Minimum Gasket Assembly Stress	20	N/mm <sup>2</sup>
M DIN Factor	1.3	-
Maximum Permissible Gasket Stress	160 (for 1.5mm) 120 (for 3mm)	N/mm <sup>2</sup>
Maximum Permissible Gasket Stress (under service conditions)	140 (for 1.5mm) 100 (for 3mm)	N/mm <sup>2</sup>
M ASTM Factor	3 (for 1.5mm) 2.5 (for 3mm)	-
Y PSI ASTM Factor	9000 (for 1.5mm) 4000 (for 3mm)	-

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