

Graphite Gaskets Material Datasheet

Product Code: RC1104

Technical Specification

Specification	Test Method	Value		
Grade	-	Homogenous graphite	Stainless steel foil	Stainless steel tanged
Thickness	-	1.0mm, 1.5mm, 2.0mm, 3.0mm	0.75mm, 1.0mm, 1.5mm, 2.0mm, 3.0mm	1.0mm, 1.5mm, 2.0mm, 3.0mm
Temperature Range	-	-200°C to +500°C	-200°C to +500°C	-200°C to +500°C
Intermittent dry	-	-200°C to +650°C	-200°C to +650°C	-200°C to +650°C
Intermittent steam	-	-200°C to +650°C	-200°C to +650°C	-200°C to +650°C
Maximum Pressure	-	40 Bar	140 Bar	140 Bar
Density	-	1.1g/cm ³	1.1g/cm ³	1.1g/cm ³
Ash Content	DIN 51 903	<1.0%	<1.0%	<1.0%
Leachable Chloride Content	-	<50ppm	<50ppm	<50ppm
Material of Insertion	DIN/ASTM	-	1.4401/SS (foil)	1.4401/SS (tanged)
Thickness of Insertion	-	-	0.05mm	0.1mm
Number of Inserts	-	-	1 or 2	1 or 2
Gas Permeability	-	<0.30, <0.60, <0.80, <0.80 (cm ² /min)	<0.60cm ² /min	<0.60, <0.60, <0.80, <1.0 (cm ² /min)
Spec. Leak Pate	-	<0.05, <0.08, <0.1, <0.1 (mg/s/n)	-	-
Stress Relaxtion	DIN 52 913, 16hrs @ 300°C	<47mg/s/n	>45mg/s/n	>48, >48, >48, >45 (mg/s/n)
Compressibility	ASTM F 36A-66	40 - 50%	40 - 50%	30 - 35%, 30 - 35%, 30 - 40%, 30 - 40%
Recovery	ASTM F 36A-66	10 - 15%	10 - 15%	15 - 20%
Minimum Gasket Assembly Stress	-	20N/mm ²	10N/mm ²	20N/mm ²
M Din Factor	-	1.3	1.3	1.3
Maximum Permissible Gaske Stresss	-	160, 140, 120, 120 (N/mm ²)	100N/mm ²	180, 160, 140, 120 (N/mm ²)
Maximum Permissible Gaske Stresss (under service conditions)	-	140, 120, 100, 100 (N/mm ²)	100N/mm ²	160, 140, 120, 100 (N/mm ²)
M ASTM Factor	-	2	3	3, 3, 2.5, 2.5
Y PSI ASTM Factor	-	1500	900	9000, 9000, 4000, 4000

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