

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 Intermittent dry Intermittent steam	-	-200°C to +500°C -200°C to +650°C	-200°C to +500°C -200°C to +650°C	-200°C to +500°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

The information contained on this product information sheet is to be used as guidance. The advice is given in good faith and does not constitute any guarantee or recommendation for suitability. The Rubber Company cannot be held liable for any damage caused by incorrect installation. We hereby reserve the right to change the technical information herewith without notification or prior agreement.