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B9109 Product Data Sheet

B9109 Composite Neoprene Rubber Faced Phenolic Cotton SRBF

Material Details

Grade:	B9109
Description:	Phenolic Cotton. Neoprene Rubber Faced SRBF
Comments:	The B9 family of products are high performance composite sealing/insulating materials designed to meet specific needs, primarily in the Oil and Gas distribution industries. B9109 combines the sealing properties of Neoprene with the strength and insulation properties of a fine weave SRBF laminate. Conventional materials can cause problems due to either with being too soft to withstand the compressive forces of the mating surfaces or too hard to form a satisfactory seal. The thickness of the sealing rubber face(s) on Attwater B9 laminates is kept to a minimum (typically 0.4mm). This combined with the high compressive strength of the core eliminate the compression effects normally associated with softer materials. This makes the product capable of withstanding compressive loads in excess of 30,000 psi. The product also acts as electrical insulation between the mating surfaces reducing electrolytic effects, which can lead to corrosion. The Attwater Group also manufactures a complementary range of insulating bushes and washers to enable complete insulated flange joints to be assembled.
Body Colour:	Varies
Cover Colour:	Black Or Green
Finish:	Matt
Size:	1220 x 1220

Typical Applications

- Pipeline Insulation

General Properties

Property	Unit of measure	Typical Value
Density	g/cm3	1.35

¥ Where relevant, the flammability test method is used solely to control and monitor consistency of production. Under no conditions should the results be considered in relation to fire hazards under actual conditions of use.

Electrical Properties

Property	Unit of measure	Typical Value
Breakdown Voltage (Edge Step by Step)	kV	15

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	100
Compressive Strength (Flat 20°C)	MPa	200

Thermal Properties

Property	Unit of measure	Typical Value
Thermal Rating Continuous	°C	115
Thermal Rating Intermittent	°C	125

Source: https://www.attwater.com/products/b9109/