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B9129 Product Data Sheet

B9129 Composite Neoprene Rubber Faced Phenolic Cotton SRBF

Material Details

Grade:	B9129
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. B9129 combines the sealing properties of Neoprene with the strength and insulation properties of a medium 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. Other grades of rubber are available on request.
Body Colour:	Sandy Brown
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
Classification (ASTM F868)	-	0RBR2

¥ 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
Electric Strength (Flat Rapid)	kV/mm	4
Breakdown Voltage (Edge Step by Step)	kV	11
Insulation Resistance	GΩ	1.4

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	140
Compressive Strength (Flat 20ºC)	MPa	300
Compressibility (ASTM F36)	%	34.0
Recovery (ASTM F36)	%	66.2
Rubber Hardness	Shore	90

Thermal Properties

Property	Unit of measure	Typical Value
Thermal Rating Continuous	ºC	115

Property	Unit of measure	Typical Value
Thermal Rating Continuous	ºC	125

Disclaimer: The above values are based upon routine test data and do not form the basis of a supply contract. These products may be used in a diverse range of applications and whilst every effort is made to ensure the information in this data sheet is accurate, it must be stressed that it is the user’s responsibility to ensure suitability for the intended end use.

Source: https://www.attwater.com/products/b9129/