



INTRODUCTION

A flange isolation kit protects a flanged joint from the corrosion from static currents. Each kit consists of one washer for each nut, one full-length insulating sleeve for each bolt, a gasket (type D, E & F), and thick plated steel washers for each nut.

Flange Insulation Kit

Phenolic Washers:

Bakelaque Cotton Fabric Reinforced Laminate Grade B12 Phenolic Resin.

Flexural Strength	120 MPa
Impact Strength (Notched Charpy)	10.0 kJm ²
Tensile Strength	80 MPa
Electric Strength perpendicular to laminations in oil @ 90°C. (Rapidly Applied)	3 MV/m
Electric Strength perpendicular to laminations in oil @ 90°C. (Step by step)	2 MV/m
Breakdown voltage parallel to laminations in oil @ 90°C.	12 kV
Insulation resistance after 24 hours water immersion.	2 GΩ
Comparative tracking index.	110 V
Thermal classification †† continuous (Intermittent)	115°C (125°C)
Water absorption after 24 hours immersion.	85 mg
Density	1.35 g/cm ³
Specific volume	741 cm ³ /kg
Colour	Brown

†† Figures are given for guidance only and assume use of material in air.

Mylar Sleeves:

Dielectric Strength – ASTM D149	4000 Volts/Mil (Short Time)
Compressive Strength – ASTM D695	N/A
Water Absorption – ASTM D229	0.8%
Operating Temp F	-75 to +300
Operation Temp C	-59 to +149
Flexural Strength – ASTM D790	13000 psi
Cut Through Resistance	3500 ft-lbs

The information given is based upon average values and is in no way intended as a warranty. The purchaser shall be responsible for determining the suitability of the product for any particular application.



Yorkshire Gaskets Ltd



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CERTIFICATE NO. 14235
ISO9001



DATA SHEET

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Flange Insulation Kit

Neoprene Faced Phenolic Gasket

Description – Phenolic Paper. Neoprene Rubber Faced SPBP

Comments - Neoprene faced phenolic is a sealing/insulating material designed to meet specific needs, primarily in the Oil and Gas distribution industries. The products incorporate an SRBP or SRBF core with a chemically bonded Neoprene surface. Conventional materials can cause problems due to either 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) is kept to a minimum (typically 0.4mm). This combined with the high compressive strength of the core eliminates the compression effects normally associated with softer materials. This makes the product capable of withstanding compressive loads in excess of 30,000psi. The gasket acts as electrical insulation between the mating surfaces reducing electrolytic effects, which can lead to corrosion.

General Properties		
Property	Unit Of Measure	Typical Value
Density	g/cm ³	1.35
Water Absorption	mg	0.5

Electrical Properties		
Property	Unit Of Measure	Typical Value
IR (24hrs Water Immersed)	GΩ	100
IR (Dry)	GΩ	100
Breakdown Voltage (Edge Step by Step)	kV	25

Mechanical Properties		
Property	Unit Of Measure	Typical Value
Flexural Strength	MPa	180
Compressive Strength (Flat 20C)	MPa	350
Compressive Strength (Flat 80C)	MPa	250

Thermal Properties		
Property	Unit Of Measure	Typical Value
Thermal Rating Continuous	°C	100
Thermal Rating Intermittent	°C	120

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