



## Insulation set Data Sheet

### Central Gasket:

Neoprene Faced Phenolic Resin Sheet. Rubber thickness of 0.4mm on each face of Phenolic Sheet, thickness 2.4mm, to NEMA L1-1-1983, Type XPC, with the following properties:

Dielectric Strength in oil at 23°C	500 Volt/mil (20,000 Volts/mm)
Water absorption after 24 hours immersion in water at 23°C	0.6%
Compressive strength at 23°C	168N/MM <sup>2</sup>
Maximum continuous operating Temperature	100°C
Insulation resistance	1.2 x 10 <sup>6</sup> Megohms

### Phenolic Washers:

Bakelacque Cotton Fabric Reinforced Laminate Grade B12 Phenolic Resin.

Flexural Strength	120 MPa
Impact Strength ( Notched Charpy )	10.0 kJm <sup>2</sup>
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 <sup>3</sup>
Specific volume	741 cm <sup>3</sup> /kg
Colour	Brown

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

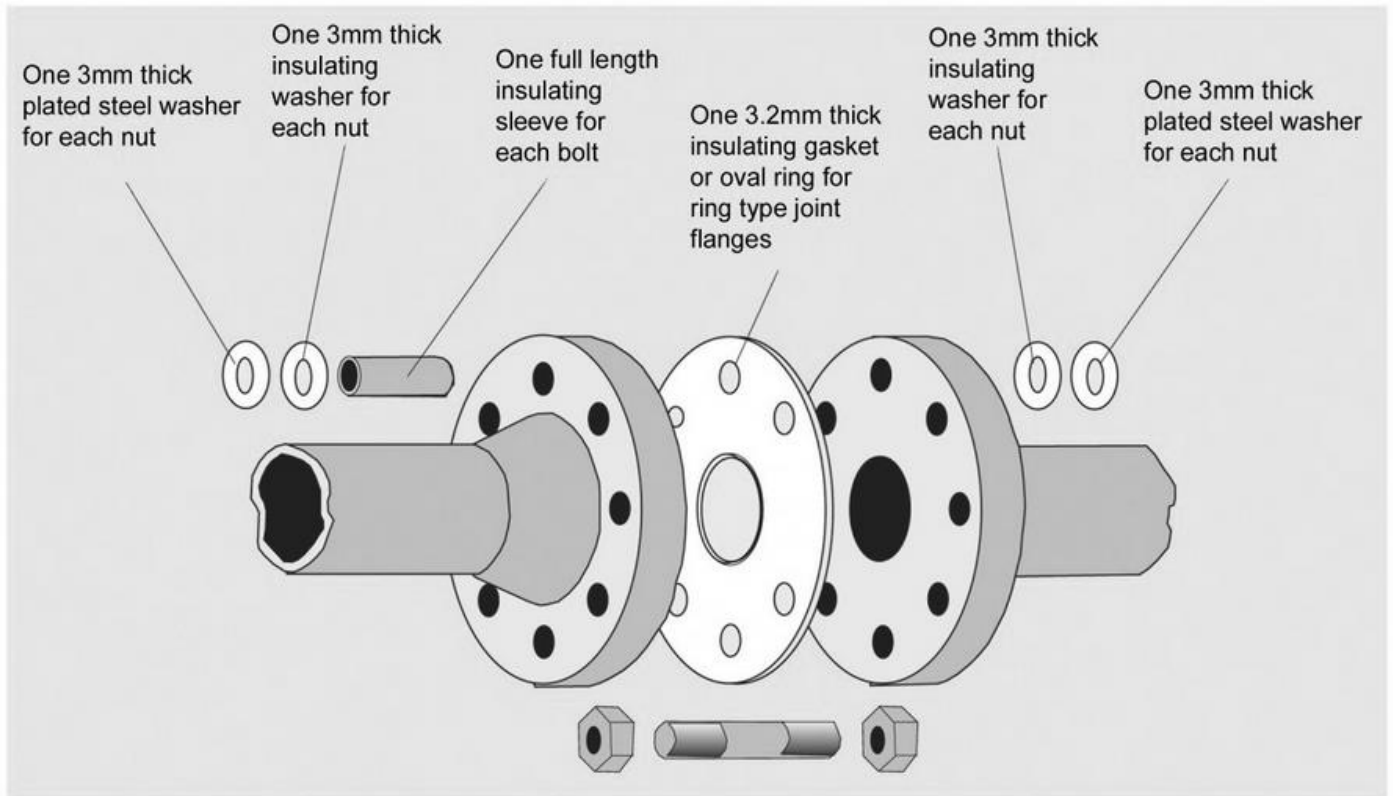
### Mylar Sleeves:

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

### Steel Washers:

Zinc Plated BS 4320 ( 43A )





## Standard Flange Insulation Sets comprise:

- 1 X 3.2mm thick Neoprene Faced Phenolic Gasket
- 2 X 3mm thick Phenolic Washers per bolt
- 2 X 3mm thick MSZP Washers per bolt
- 1 X Mylar (Polyester) Sleeve per bolt