

Flange Insulation Kit

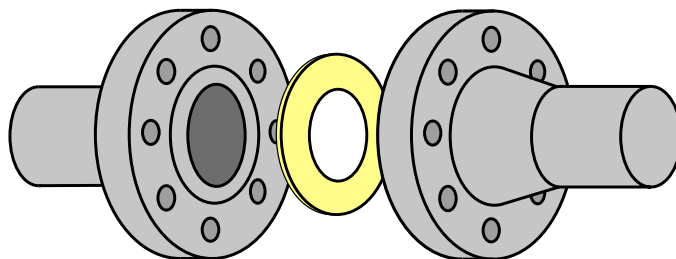
Type F - G10/G11 covered PTFE



Description:

The insulation kit consists in a gasket made of G10 or G11 covered PTFE, an insulation sleeve for each bolt, a couple of insulation washer and steel washer for each bolt. The gaskets are RF (Flink type F).

The insulation sleeve are made of various type of epoxy resin and to be inserted in the hole for the bolts; The insulation washer are made of bachelized cloth or epoxy resin and metallic washer are made of galvanized steel, on request can also be made of stainless steel.

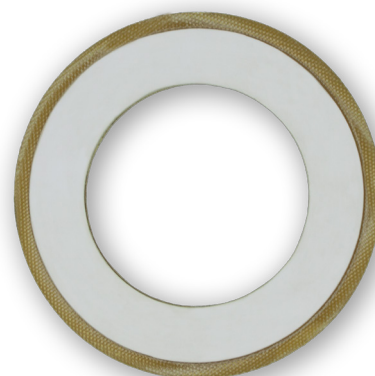


Application/Service:

The insulation kit ensures the interruption of electrical continuity between adjacent flanges isolating each component, preventing galvanic or electrochemical corrosion process. In fact it prevents contact between two materials that having different electric potential, without interfering with the proper tightening of flanges.

GASKET TECHNICAL DATA:

| | PTFE | Nema G10 (PTFE) | Nema G11 (PTFE) |
|---------------------------------|---------|--------------------|--------------------|
| Max. Pressure (bar) | 50 | - | - |
| Max. Operating Temperature (°C) | 260 | 130 | 155 |
| Min. Operating Temperature (°C) | -240 | - | - |
| pH Range | 0 ÷ 14 | - | - |
| Dielectric Strength (kV/mm) | 20 ÷ 40 | 15 | 15 |
| Y (MPa) | 25,5 | - | - |
| m | 2,75 | - | - |



FEATURES OF SLEEVES AND WASHERS:

| | Nema G10 | Nema G11 | Nema FR4 | Nema FR5 | Nema G11H | Bachelized Cloth* | Rigid Mica* |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-------------------|-------------|
| Density (g/cm ³) | 1,95 | 1,90 | 1,90 | 1,95 | 1,90 | 1,35 | 2,1 |
| Thermal Classification (Max. Temp.) | B (130°C) | F (155°C) | B (130°C) | H (180°C) | H (180°C) | E (120°C) | H (180°C) |
| Water Absorption mm (%) | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 | 3 | 0,8 |
| Self extinguishing | NO | NO | SI (V0) | SI (V0) | NO | HB | SI (V0) |
| Tensile Strength (MPa) | 250 | 300 | 430 | 450 | 300 | 70 | - |
| Compressive Strength ⊥ (MPa) | 200 | 400 | 520 | 400 | - | 160 | 400 |
| Dielectric Strength // (kV) | 30 | 35 | 35 | 45 | 35 | 2 | - |
| Dielectric Strength ⊥ (kV/mm) | 20,9 | 20,9 | 20,9 | 20,9 | 20,9 | 0,6 | 20 |

*only for washers

Since all properties, specifications and application parameters shown throughout this catalogue are approximate and may be mutually influenced, your specific application should not be undertaken without independent study and evaluation for suitability. All technical data and advice given is based on experiences KLINGER Italy has made so far. Failure to select proper sealing products can result in damage and/or personal injury. Properties, specifications and application parameters are subject to change without notice. KLINGER Italy does not undertake any liability of any kind whatsoever. Is not advised the use in the maximum temperature and at the same time with the maximum pressure.