

FLANGE INSULATION GASKET KITS

(Exclusive Distributor for Lamons USA in UAE)

Flange Isolation Kits are designed to restrict the electrical conductivity between joint connections and to combat the effects of galvanic corrosion often found in flanged pipe systems, by eliminating metal to metal contact, as the static electrical current is halted to aid in the cathodic protection of the piping system. These kits can be used to control stray electric currents in piping at oil, gas, water, refineries and chemical plants in order to increase the safety of the production system.

Below are the design and selection of materials used in Flange Isolation Kit Gasket.

DEFENDER™ Sealing/Isolating Gaskets and Flange Isolation Kits

The **Defender™** sealing and isolating gasket is designed for critical applications. Manufactured with a 316 stainless steel core retainer and laminated on both sides with high strength G10 laminate, the Defender™ gasket is resistant to deformation under load and is used when electrical isolation and corrosion control are required on pipes containing gas, natural gas, oil and other hydrocarbon based medias up to 392°F (200°C). Available for flat face, raised face and ring type joint flanges from ½" to 32", ANSI 150-2500# and API 2-10K. The Defender™ gasket is an engineered solution that eliminates costly leaks and provides a solution for fugitive emissions.

- Gasket Type: E or F
- Seal Elements: KMT (Kammpro/Mica/PTFE)
- Pressure Class: ANSI(150#-2500#), API (2-10K), PN (20-420)
- Sizes: ½" through 48" diameter
- Temperature Range: Cryogenic-303°F (FS G10), -100-392°F (FS G11)

DEFENDER™ FS Isolation Gaskets

Defender FS gaskets were engineered for Fire Safe, extreme, high reliability sealing and electrical isolation in critical service applications. They are designed to withstand the rigorous API standard 6FB (Third Edition) test and therefore provide a solution for those who want to electrically isolate their flange while also requiring protection against the introduction of fire in and around the flange. The Defender FS sealing/isolating gasket and kit, which includes sleeves and isolation washers, exceeds the pressure-containing capabilities in standard 6FB (Third Edition) as outlined by API and is able to maintain its fire safe characteristics throughout the entirety of the test. These gaskets are well suited for high reliability sealing and electrical isolation critical service applications and locations where highly volatile fluids are present.

- Gasket Type: E or F
- Seal Elements: KMT (Kammpro/Mica/PTFE)
- Pressure Class: ANSI(150#-2500#), API (2-10K), PN (20-420)
- Sizes: ½" through 48" diameter
- Temperature Range: Cryogenic-303°F (FS G10), -100-392°F (FS G11)

ISOGUARD™ Sealing/Isolating Gaskets and Flange Isolation Kits

The **IsoGuard** sealing/isolating gasket system is designed for general applications where electrical flange isolation and corrosion control are required on pipes containing water/wastewater, gas, natural gas, oil and other hydrocarbon based medias up to 392°F (200°C). Available for flat face, raised face and ring type joint flanges, this system consists of a retainer with an incline-plane seal groove designed to optimize each seal's elastic memory, in conjunction with a proven rectangular sealing element ("Quad" ring). This design guarantees low bolt load requirements and high sealing reliability. IsoGuard systems are available with a variety of retainers and seal elements.

- Gasket Type: E or F
- Seal Element: Self-Energizing "Quad" ring (EPDM, Nitrile, PTFE, Viton)
- Gasket Retainer: G10, G11, Phenolic, G7
- Pressure Class: Up to 1500#, AWWA, API 5K and PN 250
- Tested to Shell and NSF 61 Certification Standards
- Size Range: ½" through 120"+ diameter
- Temperature Range (°F): Cryogenic-303°F (G10), -100-392°F (G11) -65-200°F (Phenolic), -100-428°F (G7)
- Temperature Range (°C): Cryogenic-186°C (G10), -73-200°C (G11), -54-93°C (Phenolic), -54-220°C (G7)

Recommended Standard Packaged Sleeve / Washer Sets

Defender™ Gasket
(Mylar Sleeves, Steel ZP and G-10 Washers)
(G10 Sleeves, Steel ZP and G10 Washers)

IsoGuard™ Gasket
(Mylar Sleeves, Steel ZP and G10 Washers)
(G10 Sleeves, Steel ZP and G10 Washers)

