



Product Evolution® Specification:

Gasket - One isolating and sealing gasket, type "F", .125" nominal thickness. A 316 stainless steel core fully encapsulated with a proprietary, abrasion resistant isolating coating not to exceed .015" in DFT (dry film thickness). The gasket shall include a Gylon(R) PTFE ID seal that is designed to meet the bore

I.D. after compression and be positively attached to the retainer. The gasket will also include a coated, pressure energized metallic "C" ring constructed of Inconel 718. The gasket will be tested to, and have passed, API 6FB fire testing in multiple sizes and classes. The isolating coating shall have a dielectric strength of at least 1,400 volts per mil.

Washers – Four isolating washers per bolt or stud assembly. A dark brown, electrically isolated washer with 316 stainless steel core. The product will be rated to at least +425F and -50F as a minimum temperature. The dielectric value (ASTM D149) shall be at least 540VPM and water absorption will be between - (ASTM D570) - .01%-.02%. Abrasion resistance will be less than 30 wear index per ASTM D4060 Abrasion Testing. The washer ID will be of custom diameter to accommodate the sleeve wall thickness.

Sleeves – One G11 sleeve per bolt. The sleeve length shall be the combined thickness of the flange, plus raised face or RTJ height, plus gasket, plus three washers. The wall thickness shall be a nominal 1/32" thick.



Product Data

- Carrier/Retainer: 316L Stainless Steel with Fully Encapsulating Proprietary Coating
- Primary Sealing Element: Gylon® 3500 Silica Filled PTFE ID-Seal
- Secondary Fire-Safe Sealing Element: NACE MR0175/ISO 15156 Inconel 718 C-ring with Proprietary Coating
- Colour: Dark Brown Retainer with Black Handle
- Fluid Service: Oil & Gas
- Maximum Operating Temperature (°F/°C): 500°F/260°C*
- Minimum Operating Temperature: (minus): -58°F/-50°C
- Size: ½ - 24 inch NPS**
- Pressure Class: ASME B16.5 150# - 2500#, API 6A 2K-5K***

* Note: Temperature rating when using Mica sleeves/washers

** Note: API, DN, and larger sizes available soon or upon request

*** Note: ASME B16.47, API 6A, EN 1092, and DIN 2501 flange specification and pressure classes available soon or upon request.

Product Description

Flange isolation gasket composed of a fully encapsulating high dielectric strength thin-film coated stainless steel grade 316L gasket retainer, NACE MR0175/ISO 15156 Inconel 718 C-ring with high dielectric strength thin-film coating, and Silica Filled PTFE ID-Seal where applicable. Handle with unique identifying markings (e.g. size, pressure class, part number). Standard compressed gasket thickness (T) is 0.125" (~3.2mm).

