

ELECTRON™ FSS

Fire Safe Isolation Kit



- Cathodic protection in severe conditions
- High degree of sealability
- Certified to API 6FB standard
- Complete isolation kit



Sealing for a Safer and Greener Tomorrow

ELECTRON™ FSS

“The most reliable and functional fire safe gasket in the market”

The Teadit **ELECTRON™ FSS** is designed to meet the most demanding corrosion resistance needs in a bolted joint assembly. It allows for a higher degree of gasket compression, a higher level of sealability, and retention of bolt-load during the event of a fire.

The **ELECTRON™ FSS** fire safe isolation kit is composed of a sealing gasket, insulating washers, metal washers, and insulating sleeves. The gasket is manufactured by using a metal core of 316 stainless steel that is faced on both sides with Teadit’s structured Tealon™ and TerMica™. The robust construction enables it to simultaneously meet sealability, electrical isolation, and fire resistance requirements even in high pressure applications.

APPLICATIONS



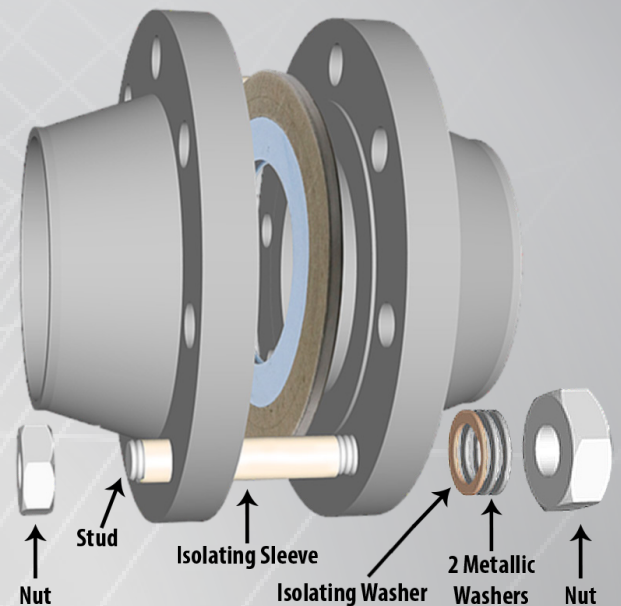
In the event of a fire, the **ELECTRON™ FSS** is designed to withstand elevated temperatures, per API 6FB. It also prevents the, difficult to detect, localized pitting (electrochemical corrosion), often observed in metal pipe connections with dissimilar flange materials.

Applications for **ELECTRON™ FSS** are found in all sectors of oil and gas.

- Onshore & Offshore Production
- Gas Processing
- Oil Refining
- Basic Petrochemical
- Pipeline & Distribution
- Petrochemical

Other applications in non-oil and gas industries include:

- Pulp & Paper
- Pharmaceutical
- Mining
- Chemical
- Food & Beverage
- Water & Waste Water
- Sugar & Ethanol
- Power Generation



Repeat washer configuration on same side for all bolts

**Certified to API 6FB Standard
Patent # 10,094,474**



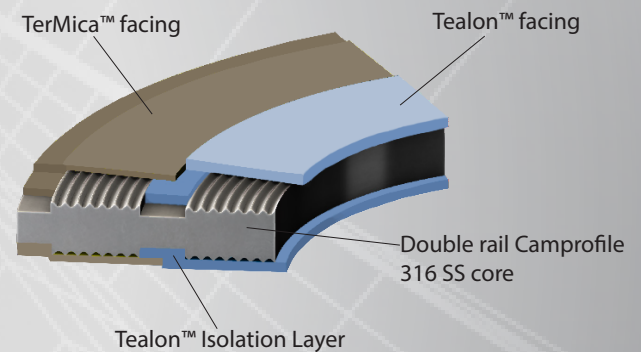
“ The proof is in the results...”

API 6FB STANDARD

Variable	Test Requirements	Data Collected
Average System Pressure	555psi	557psi
Average Flame Temperature	1400°F (760°C)	1482°F (806°C)
Time to Reach Flame Temperature of 1400°F (760°C)	w/in 2:00 min	1:00 min
Average Calorimeter Temperature	1200°F (648°C)	1337°F (725°C)
Time to Reach Average Calorimeter Temp. of 1200°F (648°C)	w/in 15:00 min	14:00 min
Total Burn Time	30 minutes	zero leakage
Total Cool Down Time	30 minutes	zero leakage
Total Repressurization Hold Time	5 minutes	zero leakage
Average System Pressure During Repressurization	555psi	repressurization not needed

FEATURES

- Zero leakage per API 6FB Test
- Low load to seal
- No metal-to-metal contact after installation
- Higher gasket maximum operating temperature
- Specially formulated and designed Tealon™ PTFE for high and improved electrical resistance
- Field assembly identification
- Tealon™ facing ID shrouds the metal core to avoid electric conductivity through the metal



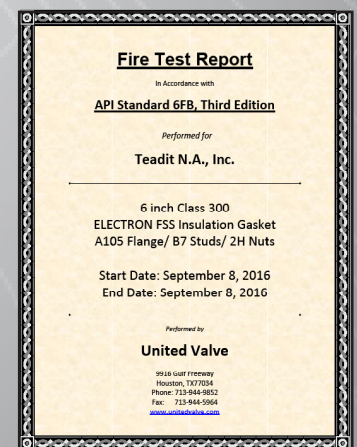
Major Competitors' Design Flaws:

- ✗ Metal-to-metal contact created under compressive load
- ✗ Localized corrosion resulting from the transfer of electricity through gaps in the gasket material
- ✗ Metal-to-metal contact observed with coated washers
- ✗ Poor sealing performance

Teadit's ELECTRON™ FSS Solutions:

- ✓ Reducing potential electrical contact between flanges
- ✓ Creating an extra isolating area
- ✓ Utilizing TerMica™ washers
- ✓ Improving sealing performance

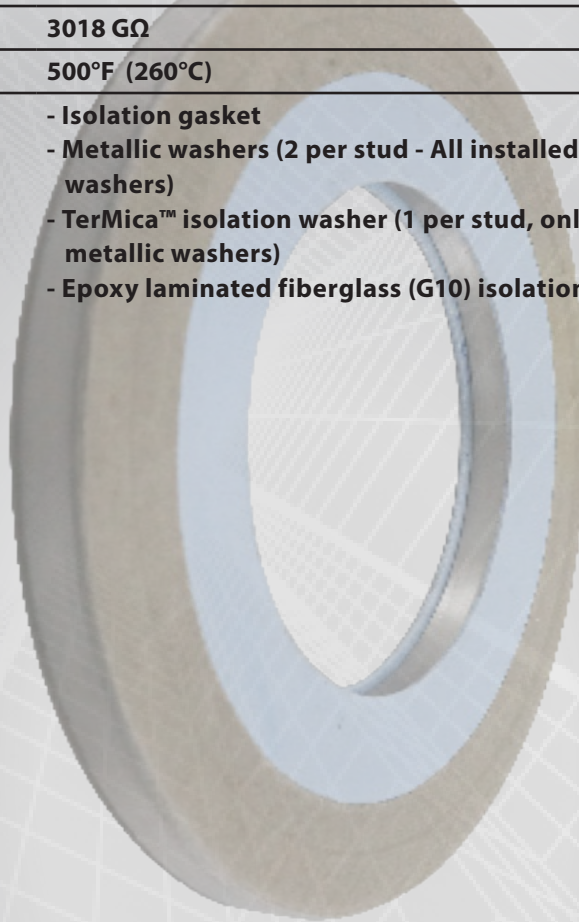
API STANDARD 6FB



ELECTRON™ FSS Kit

Flanges (recommended)	RF, FF and RTJ in ASME classes 150# to 2500# and API 2K to 10K
Gasket Electrical Resistance	3018 GΩ
Max Temp Sealing Element	500°F (260°C)

- ELECTRON™ FSS Kit Consists of:**
- Isolation gasket
 - Metallic washers (2 per stud - All installed on same side as the TerMica™ washers)
 - TerMica™ isolation washer (1 per stud, only installed on the same side as the metallic washers)
 - Epoxy laminated fiberglass (G10) isolation sleeves (1 per stud)



The application parameters indicated in this brochure are typical. Specific applications should be looked at independently for an evaluation on compatibility. Please consult Teadit engineering for recommendations about specific use.



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