ELECTRONTM FSS

Fire Safe Isolation Kit









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

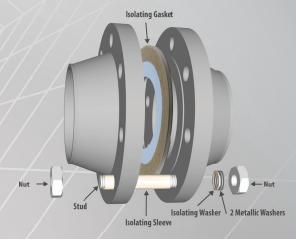


ELECTRON™ FSS

"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 using a metal core of 316 stainless steel, faced on both sides with Teadit's structuredTealon™andTerMica™.Its robust construction enables it to simultaneously meet sealability, electrical isolation, and fire resistance requirements, even in high pressure applications.



Certified to API 6FB Standard

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



"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

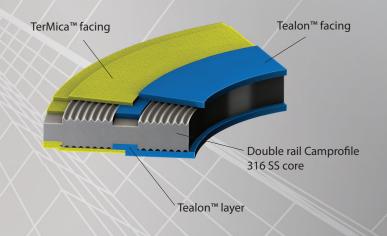
- Zero leakage per API 6FB Test
- Low load to seal
- No metal-to-metal contact after installation
- Higher gasket maximum operating temperature
- Specially formulated and designed Tealon™ PTFE
 for high and improved electrical resistance

Major competitors' design flaws include:

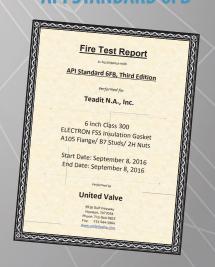
- Metal-to-metal contact created under compressive load
- Localized corrosion resulting from the transfer of electricity through gaps in the gasket material
- Metal-to-metal contact observed with coated washers
- Poor sealing performance

The **ELECTRON™ FSS solves competitors' design flaws** by:

- 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)
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- **ELECTRON™ FSS Kit Consists of:**
- Isolation Gasket
- Metallic washers (2 per stud)
- TerMica™ isolation washer (1 per stud)
- Epoxy laminated fiberglass (G10) isolation sleeves (1 per stud)

ELECTRON™ FSS U.S. Patent Pending

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.



Sealing for a Safer and Greener Tomorrow

Teadit Indústria e Comércio Ltda.

Av. Pastor Martin Luther king Jr. 8939 Colégio - Rio de Janeiro - RJ - 21530-012 Phone: +55 21 2132 2500 Email: export@teadit.com.br Website: www.teadit.com/br

Teadit Juntas

Av. Mercedes Benz, 390 - Distrito Industrial Campinas: - São Paulo - 13054-750 Phone: +55 19 3765 6501 Email:export@teadit.com.br Website: www.teadit.com/br

Teadit International Produktions GmbH

Rosenheimer Str. 10 A-6330 - Kufstein - Austria Phone: +43 5372 64020 0 Email: austria@teadit.eu Website: www.teadit.eu

Teadit North America, Inc.

10545 Red Bluff Rd Pasadena, TX 77507 Phone: +1713 281 476 3900 Email: sales@teadit.com Website: www.teadit.com/us

Teadit Packing & Gaskets Pvt Ltd.,

E-75, Savli GIDC , Village Manjusar, Dist Vadodara, Gujarat, India - 391775 Phone: +91 2667 264017 E-mail: brd@teadit.in Website: www.teadit.eu

Teadit Argentina

Valdenegro 3163/67 AR- C1431ACI Buenos Aires Phone: +54 11 4543 4849 Email: ventas@teadit.com.ar Website: www.teadit.com/la

Teadit Deutschland GmbH

Schanzenstrasse 35 DE-51063 Köln, Germany Phone: +49 221 922 342 0 E-mail: germany@teadit.eu Website: www.teadit.eu