

The PTFE and Stainless Steel Gasket

TUF-STEEL[®]

The Next Generation



Presenting TUF-STEEL®: The S.I.P. Leak Proof Solution

There's a new standard in S.I.P. (steam in place) hygienic seal stability and longevity. With a unique 50/50 blend of non-pigmented PTFE and 316L water atomized and passivated stainless steel, Tuf-Steel is one tough gasket.

Tough Under S.I.P. Conditions

- Superior creep resistance
- Minimal thermal expansion
- Excellent chemical resistance
- No pigmentation
- Passivated to eliminate rouging
- Stops leaks when torqued correctly (50 in./lbs.)
- No seal extrusion into the sanitary tube I.D.
- No obstruction of flow
- Non-stick surfaces
- Excellent expansion and contraction stability
- Maintains sealing stability in ΔT processes
- I.D. pharmaceutical finish
- Available sizes: 1/2" – 12"
- Metal detectable

Meets High Pharmaceutical Standards

- U.S. Pharmacopeia Class VI Certification
- Cytotoxicity Criteria
- USDA and 3-A Sanitary Standards
- Current Good Manufacturing Practices (CGMP)
- ASME-BPE Standards
- Animal Derived Ingredient Free

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Torque-Rite: United States Patent Number 6,082,941.

Rubber Fab Technologies Group's Metal Detectable products are patent pending.



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TUF-STEEL, the Next Generation Gasket

Tuf-Steel easily outperforms standard solid PTFE and PTFE envelope seals under even the most demanding S.I.P. pharmaceutical applications. In fact, Tuf-Steel lasts at least five times longer in most applications!

Prevents System Downtime

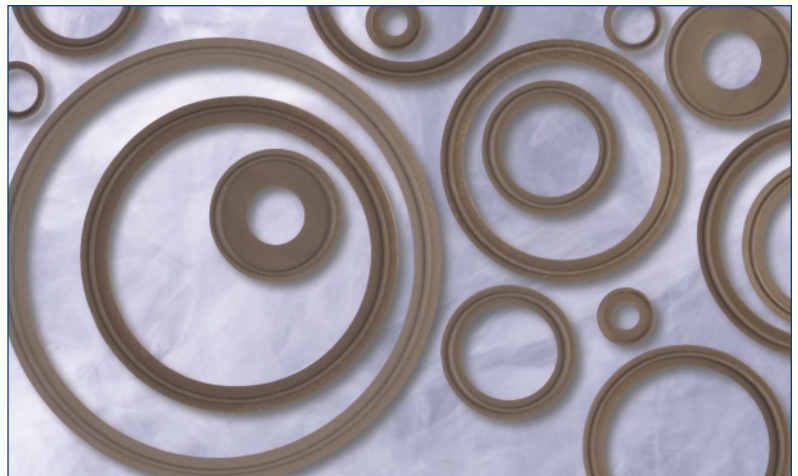
The unparalleled strength of Tuf-Steel eliminates maintenance needs and helps prevent system downtime by eliminating cold flow creep. This makes Tuf-Steel ideal for sanitary steam pipe connections in

both extreme cold (down to -100°F) and hot conditions (up to 500°F). Tuf-Steel hygienic seals are available in a variety of sanitary standard sizes from 1/2" to 12" diameter to service virtually any S.I.P. application.

Plus, Tuf-Steel works with the Torque-Rite™ Perfect Surface Hygienic Seal System. This eliminates the potential for bacterial entrapment problems caused by over-tightening or under-tightening a hygienic seal (for greater details, see The Perfect Surface Hygienic Seal System brochure by Rubber Fab).

The Exclusive Properties Of TUF-STEEL

Property	ASTM Method	Value
Specific Gravity	D792	3.45
Tensile Strength	D4894	1928psi
Elongation @ Break	D4894	270%
Compressive Stress @ 1%	D695	832
Compressive Stress @ 5%	D695	2590
Compressive Modulus	D695	84200
Hardness	D2240	68
Temperature Low	Continuous	-100°F
Temperature High	Continuous	500°F



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