

TF-15™

Thread Sealing Compound



TECHNICAL DATA SHEET

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DESCRIPTION

TF-15™ Thread Sealant contains reprocessed PTFE fluorocarbon resin and molybdenum disulfide (MoS₂) in a high-melting, high temperature grease vehicle. It is further fortified with inhibitors for rust, corrosion and oxidation. Its lubricating and sealing properties will prevent thread leaks of fluids, gases or steam.

Versatile and dependable, **TF-15** can be used in a multitude of low friction, thread sealing applications requiring maximum performance. It is recommended for all critical tubular components from non-precision, loose and worn threads to high precision threads, particularly those subjected to impact or rough handling upon makeup. It protects all threads from premature wear and prolongs the life of tapered-thread joints under all conditions.

TF-15 is water resistant, non-hardening and has a wide variety of applications over extensive temperature and usage ranges. Its ingredients are inert, non-corrosive and non-conductive. It brushes on easily and adheres to wet or oily threads. **TF-15** is completely stable and requires no thinners.

TF-15 has a plating effect on thread surfaces and creates a chemically impervious seal in the helical passages of threaded connections. It assures tight makeup at low torque and allows easy breakout without seizing, stripping, or galling. It provides a permanent seal and maintains joint efficiency under vibration and cyclic loading.

CHARACTERISTICS

- Lubricates for tighter makeup with less torque
- Seals at temperatures to 260°C (500°F) and pressures to 69,000 kPa (10,000 psi).
- Seals badly worn threads.
- Seals applications exposed to H₂S and salt water.
- Non-volatile.
- Recommended by manufacturers for use on fiberglass tubing, casing and line pipe threads.

OPERATING RANGE

-73°C (-100°F) to 315°C (600°F)
Brushable to -23°C (-10°F)

Pressures to 69,000 kPa (10,000 psi)

NOTE: NOT FOR USE ON OXYGEN LINES

APPLICATIONS

TF-15 is excellent for use on all threads subject to vibration, surge, pressure, and temperature fluctuations. It is particularly useful in areas subject to H₂S and salt water. It is recommended for lines carrying a wide variety of oils, solvents, gases (except oxygen), acids, alkalis, and steam.

TF-15 is suitable to be used on precision threads of API oilfield casing, tubing, line pipe, subsurface production tools and related accessories. It prevents galling and thread wear, seals badly worn threads, and greatly increases connection life.

PRODUCT SPECIFICATIONS

Thickener	Aluminum Complex
Fluid Type	Petroleum
Color/Appearance	Black Grainy Paste
Dropping Point (ASTM D-566)	232°C (450°F)
Specific Gravity, Typical	1.15
Density (kg/liter), Typical	1.15
Oil Separation, Wt. % Loss @ 100°C (212°F)	<3.0
Flash Point (ASTM D-92)	221°C (430°F)
Water Spray-Off Characteristics (ASTM D-4049)	<10%
NLGI Grade	2
Penetration @ 25°C (77°F) (ASTM D-217)	265 - 295
Copper Strip Corrosion (ASTM D-4048)	1A
Shell 4 Ball (ASTM D-2596)	
Weld Point, kgf minimum	620
Friction Factor (relative to API MOD)	0.7

PACKAGING

Inventory Code	Container Size	Container
23067	250 ml	Squeeze Tube
23002	225 ml	Brush-Top
23004	1 Liter	Jar
23005	5 Liter	Pail
23010	10 Liter	Pail
23015	15 Liter	Pail

LIMITED WARRANTY

Jet-Lube of Canada makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube of Canada Ltd. materials and workmanship.

This Limited Express Warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of Jet-Lube of Canada Ltd.

The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and Jet-Lube of Canada Ltd. shall not be liable for incidental or consequential damages.