



API-MODIFIED™

HIGH-PRESSURE THREAD COMPOUND

API-Modified is a compound that conforms to or exceeds the requirements of API RP5A3 (former API BUL 5A2) and ISO 13678 Annex A. It also contains rust and oxidation inhibitors blended in JET-LUBE's base grease compounded from custom-refined, low-sulfur oil to ensure brushability over a wide temperature range. It tenaciously adheres to all surfaces, resists water washout, and prevents rust & corrosion.

API-Modified reduces friction in the makeup of casing and tubing, preventing galling and wear. Maximum thread engagement is ensured, providing optimum leak resistance. API-Modified contains inhibitors that provide maximum protection against rust and corrosion of threaded surfaces. Its conductivity reduces the possibility of electrolytic corrosion by preventing the formation of galvanic cells in the presence of salt water and other corrosive fluids.

HIGH-PRESSURE THREAD COMPOUND



APPLICATIONS

- API Casing
- Tubing Connections (i.e. buttress & 8-Round)
- Line Pipe
- Flow Lines
- Subsurface Production Tools
- Tank Batteries
- Threaded Connections of Oilfield Tubular Goods on Make-up, (in service, and in storage)
- Most Proprietary Mechanical Seal Connection Designs

**Not recommended for rotary shouldered connections*

BENEFITS

- Meets or exceeds API RP 5A3/ISO 13678 requirements
- Additives for rust and corrosion protection
- Excellent lubrication qualities prevent galling and wear
- Sticks to wet and oily threads
- Brushable over a wide temperature range
- Leak prevention to 10,000 psi on API Connection designs and higher on mechanical seal connection designs

For API 6A bolting and other flange bolting applications although API MODIFIED was used as the reference compound to establish some of the listed make-up torques, JET-LUBE recommends using 550® EXTREME® or KOPR-KOTE® for reasons of occupational health. Where the torques are provided multiply the value by 1.15 to generate the new torques needed to achieve the same loads as with API MODIFIED.

TYPICAL CHARACTERISTICS

Thickener Type	Lithium Soap
Oil Type	Petroleum
Color	Black / Brown
Grade	1
Cone Penetration @77°F, (ASTM D-217)	310 – 340
Dropping Point, (ASTM D-566)	>400°F (204°C)
Gas Evolution, ccs, 120 h @ 66°C	0 typical
Friction Factor, (API RP 5A)	1.0
K-Factor, Nut Factor (API 6A)	0.13
Density (lb/gal), @ 77°F (25°C)	16.4
Specific Gravity, g/cc @ 60°F (15.5°C)	1.97
Flash Point °F (°C)	>430 (221)
4-Ball EP	
Weld Point, kg	800
Load Wear Index	>130
Copper Strip Corrosion 212°F (100°C) @ 3 hrs	1A
Shelf Life, Years	5
Environmental Rating	
Denmark PR#:	2391739
UK CEFAS	Group B
Norway SFT/Nems	Black
Service Rating	0°F (-18°C) to 400°F (205°C)

* The maximum operating temperatures are based upon connection designs. For API connection designs the maximum operating temperatures can be used with certain connections up to 400°F (205°C). Please consult the connection manufacturer before using on mechanical seal connection designs where the temperature limits may be much higher.

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Part
Numbers



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