

EXTREME[®]

Tool Joint & Drill Collar Compound



TECHNICAL DATA SHEET

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DESCRIPTION

JET-LUBE EXTREME mud-resistant drill collar and tool joint compound is a premium-quality, unleaded compound blended into JET-LUBE's newest high-temp, mud-resistant complex base grease. This new base grease offers the additional advantage of superior adhesion, improved EP and antiwear properties, resistance to water wash-off, and superior rust and corrosion protection in the presence of invert or high-pH muds. JET-LUBE **EXTREME**'s solids package is formulated to prevent excessive circumferential makeup by increasing the coefficient of friction under compressive forces. As stress levels rise above 50% of yield, the friction factor increases, limiting downhole makeup. Full hydraulic joint efficiency is maintained allowing joint shoulder faces to mate completely without standoff or deformation.

- **Not classified as a marine pollutant** - DOT Approval CA2006100003
- Highly resistant to drilling muds.
- Contains no lead or zinc.
- Extreme-pressure additives provide additional protection against seizing and galling.
- Complex grease base provides superior rust and corrosion protection.
- Sticks to wet joints.
- Brushable and stable over a wide temperature range.
- Consistent rig floor makeup.
- Unequaled resistance to makeup downhole.

For optimum performance on API drill string connections, JET-LUBE **EXTREME** should be utilized with the torque charts in API RP7G or by contacting the drill pipe and connection manufacturer.

Premium drill string connections such as HI-TORQUE[®] (HT), eXtreme[®] Torque (XT[®]), and XT-M[™] connections, etc., utilize make-up torques based upon thread compound friction factors of 1.0. Therefore, use the torque provided by the premium connection manufacturer. Adjusting make-up torque based on thread compound friction factor may still be advised.

OPERATING RANGE

-18°C (0°F) to 232°C (450°)

PRODUCT SPECIFICATIONS

Thickener	Complex Soap
Fluid Type	Petroleum
Dropping Point (ASTM D-2265)	450°F (232°C)
Specific Gravity	1.20
Density (lb/gal)	10.0
Oil Separation (ASTM D-6184) WT. % LOSS @ 212°F (100°C)	<3.0
Flash Point (ASTM D-92)	>430°F (221°C)
NLGI Grade	1
Penetration @77°F (ASTM D-217)	310 - 330
Copper Strip Corrosion (ASTM D-4048)	1A, typical
4-Ball (ASTM D-2596) Weld Point, kgf	1,000, typical
Friction Factor* (Relative to API RP 7G)	1.15

Shelf Life: Minimum two years from manufacture date.

* Many factors such as pipe size, thread geometry, drilling mud contamination, etc. affect the friction factor. This is a relative number and in all applications experience and prior knowledge should be used to adjust make-up torque accordingly. Contact your drill pipe manufacturer for torque and friction-related specifications.

PACKAGING

Inventory Code	Container Size	Container
11423	1 US Gal	Jug
11415	5 US Gal	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.