

# JET-LUBE 21<sup>®</sup>

Double Duty Joint Compound



## TECHNICAL DATA SHEET

3820 - 97 Street, NW, Edmonton, Alberta Canada T6E 5S8 • Phone (780) 463-7441 Toll Free 1-888-771-7775 Fax (780) 463-7454 Toll Free 1-888-449-4449  
email: sales@jetlubecanada.com Web site: www.jetlubecanada.com

### DESCRIPTION

**JET-LUBE 21<sup>®</sup>**, a double duty tool joint compound, has been formulated to provide a superior level of performance for today's oilfield market. Its lead-free formulation contains copper flake as the only metallic component, and is fortified by a unique blend of natural, inorganic extreme pressure and anti-wear additives.

Truly a double duty tool joint compound, **JET-LUBE 21** can be used throughout the entire drill string - 'from the swivel to the bit' - on tool joints, drill collars, and all subsurface tools in medium drilling conditions to depths of 10,000 feet. Yet, with its superior double duty abilities, **JET-LUBE 21** is a medium priced compound.

The coefficient of friction of **JET-LUBE 21** has been specifically designed to prevent excessive makeup, prevent stretched pins or bellings of the box members, even at downhole temperatures in excess of 150°C (300°F). Consistent circumferential makeup prevents high stress levels to prolong thread and shoulder life.

### APPLICATIONS

JET-LUBE 21 thread compound is recommended for the entire drill string in medium drilling conditions (up to 10,000 feet in depth, collar sizes to 6 1/4", and mud drilled holes). It is the finest tool joint compound when downhole conditions are severe and the probability of makeup while drilling is anticipated. Typical applications would be deep holes, high angle holes, problem holes involving high temperatures, whip stocks, and horizontal drilling applications. JET-LUBE 21 prevents high stress in drill pipe connections which shortens their useful life.

#### OPERATING RANGE

-18°C to 205°C (0°F to 400°F)

### CHARACTERISTICS

- Contains no lead or zinc.
- Formulated with a proprietary blend of copper, graphite, and other additives for unequaled protection and prevention of excessive circumferential makeup in hostile drilling environments.
- CZ-EX<sup>®</sup> Extreme Pressure Additives provides additional protection against seizing and galling.
- Inhibitors protect against rust and corrosion.
- Aluminum stearate grease base for brushability and stability over a wide temperature range.
- Sticks to wet joints.
- Consistent rig floor makeup.
- Unequaled resistance to makeup downhole.

### PRODUCT SPECIFICATIONS

Thickener	Aluminum Stearate
Fluid Type	Petroleum
Color/Appearance	Black/Brown
Dropping Point (ASTM D-566)	91°C (195°F)
Specific Gravity, Typical	1.06
Density (kg/liter), Typical	.98
Oil Separation, Wt. % Loss @ 100°C (212°F)	<3%
Flash Point (ASTM D-92)	>221°C (430°F)
Water Spray-Off (ASTM D-4049)	<10%
NLGI Grade	2
Copper Strip Corrosion (ASTM D-4048)	1A

### PACKAGING

Inventory Code	Container Size	Container
12110	10 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.

