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TECHNICAL DATA SHEET

JET-LUBE 21® Intermediate-Grade, Lead-Free Drill Pipe Compound

DESCRIPTION

'21' is a double duty, tool joint compound formulated to provide a superior level of performance for the increasing demands of today's oilfield market. The 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. Yet with all its superior abilities, '21' remains a medium priced product. '21' can be used throughout the entire drill string "from the kelly to the bit" on drill collars, tool joints and all subsurface drilling tools.

ADVANTAGES

- · Contains no Lead or Zinc.
- Formulated with a proprietary blend of Copper, graphite, and other additives for protection in hostile drilling environments.
- Extreme Pressure additive provides additional protection again seizing and galling.
- Inhibitors protect again rust and corrosion.
- · Sticks to wet joints.
- Aluminium base grease for brushability and stability over a wide temperature range.
- · Consistent rig floor makeup.
- Prevents high stress in drill pipe connections, which shortens their useful life.
- · Available in Arctic and Thermal grades.
- '21' has been designed to utilise the makeup charts in API RP7G.

For drilling situation such as higher speeds, higher penetration rates, deviated holes or harder formulations, drill collars can made up to 15% over the listed RP7G values.

APPLICATIONS:

'21' is recommended for the entire drill string in most drilling conditions.

Typical conditions for 21 Thermal would include geothermal wells and problem holes involving high temperatures.

PRODUCT CHARACTERISTICS

Service Ranges:

Standard:	-18°C (0°F) to 232°C (450°F)
Thickener:	Aluminium Complex
Fluid Type:	Petroleum
Dropping Point (ASTM D-566):	>232°C (450°F)
Specific Gravity:	1,1
Oil Separation Wt. % Loss @ 100°C (212°F):	<5,0
Flash Point (ASTM D-92):	>221°C (430°F)
NLGI Grade:	1
Penetration @ 25°C (77°F) (ASTM D-217):	310-330
Copper Strip Corrosion (ASTM D-4048):	1A
Shell 4-Ball (ASTM D-2596)	
Weld Point, kgf:	620
Friction Factor:	1,0 (Normal)
(Relative to API RP7G):	1,15 (Severe)

PACKAGING

Code	Net contents	Container
48775601	4,1kg	Pail
81656165	12,5kg	Pail
12650507	20kg	Pail
39995971	180kg	Drum

LIMITED WARRANTY

Jet-Lube (UK) Limited makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube (UK) Limited 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 (UK) Limited. 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 (UK) Limited shall not be liable for incidental or consequential damages.



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