

Molylube® Copper Tool Joint Compound

PRODUCT DESCRIPTION

Bel-Ray® Molylube® Copper Tool Joint Compound is an aluminum complex thickened tool joint compound. Molylube Copper Tool Joint Compound contains Extreme Pressure and anti-wear additives, rust and corrosion inhibitors, a hydrogen sulfide scavenger and lubricating solids for maximum drill pipe thread and collar protection. Molylube Copper Tool Joint Compound is easily applied (brushable and sprayable) to drill pipe threads and collars at make-up. It seals the connections, prevents seizing and galling and ensures low break out torque. Molylube Copper Tool Joint Compound's adhesive properties ensure that the product stays in application during all phases of the drilling operation.

PRODUCT FEATURES and BENEFITS

- Select lubricating solids prevents galling, seizing and fretting of threads assuring easy make-up and break out.
- High temperature thickener seals threads, minimizes oil separation and maximizes thread protection when downhole temperatures are high.
- Brushable to allow for easy application.
- Tackiness allows product to stay in place during make-up and maintains a uniform film on threads.
- Hydrogen sulfide scavenger protects threads against hydrogen sulfide corrosion and prevents deterioration of the lubricant.

APPLICATIONS

Bel-Ray Molylube Copper Tool Joint Compound is recommended for blast hole drill string assembly, drill pipe threads and collars. Typical applications would include geothermal wells, high angle holes, problem holes involving high temperatures, whip stocks and horizontal directional drilling applications.

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TECHNICAL DATA SHEET



PRODUCT DATA

Typical Properties		
Property	Test Method	NLGI Grade 1
Thickener Type		Aluminum Complex
Worked Penetration @ 25°C, 60 strokes (0.1 mm)	ASTM D217	325
Base Fluid Viscosity @ 40°C (cSt)	ASTM D445	121
Base Fluid Viscosity @ 100°C (cSt)	ASTM D445	12.9
Lubricating Solids Type		Copper, Graphite, Mica, Molybdenum Disulfide
Lubricating Solids (Wt %)		35
Oil Separation, 24 hours @ 100°C, (Wt loss %)	ASTM D1742	2.75
Torque Coefficient (K-factor)	ISO 16047	0.166
Coefficient of Friction	ISO 16047	0.123
4-Ball EP Test, Weld Load (kgf)	ASTM D2596	620
Color		Bronze

HEALTH and SAFETY

Health and safety recommendations for products can be found on the Safety Data Sheet (SDS) at www.belray.com

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