

Balmerol® Cuprakote TC 40

High Performance Thread Compound For Drill Collars As Per API RP 7G

Technical Data Sheet

Product Description:

Balmerol Cuprakote TC 40 is a lead and zinc free thread compound specifically developed for the maximum protection of drill collars and tool joints in oil field applications. Balmerol Cuprakote TC – 40 contains copper, graphite, rust and corrosion inhibitors, antioxidants and eco-friendly extreme pressure and anti –wear additives in a high temperature resistant aluminium complex base grease which is highly resistant to water. The base grease is formulated with highly refined low pour point oil which ensures brushability at low temperatures and a high degree of thermal stability. Balmerol Cuprakote TC 40 provides excellent load bearing capacity, necessary oxidation and thermal stability at high temperatures, outstanding resistance against vibrational and shock loads. It has good corrosion preventive characteristics and its use does not result in excessive metallic build - up. Balmerol Cuprakote TC 40 provides additional protection against galling and seizing due to the unique EP additive system. It has superior adhesion to wet steel surface and high resistance to make up down hole.

Features & Benefits:

Balmerol Cuprakote TC 40 provides the following benefits:

- Excellent performance under heavy loads / shock & vibration.
- Excellent thermal stability & resistance to water.
- Provides optimum lubrication to prevent galling and seizing.
- Excellent chemical stability.
- Provides excellent protection against corrosion & forms less metallic build-up.
- Lead & Zinc free
- Eco-friendly additive system

Applications / Recommendations:

- Most suitable for the lubrication of the Rack and Pinion of the Jacking system of the drilling jack up Rigs.
- Used for the maximum protection of drill collars and tool joints in oil field applications.

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Typical Properties:

Balmerol Cuprakote TC 40	
Properties	Cuprakote TC 40
Thickener Type	Aluminium Complex
Base Oil Type	Mineral
Worked Penetration 60/60 strokes at 25°C, ASTM D 217	310 - 330
Dropping Point °C, ASTM D 2265	235
Four Ball Weld Load, Kgf, ASTM D 2596	800
Copper Strip corrosion@ 100° C, 24 hrs, max. ASTM D 4048	1a
Flash Point of base oil, COC, °C, ASTM D 92	235
Oil Separation, wt loss % @ 100 ° C, 24 hrs, API 5A2	2.5

Health and Safety:

Balmerol Cuprakote TC 40 is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. For MSDS please contact your local Balmer Lawrie Marketing / Technical Service team.

For Further Information, contact:

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