OLIVALS

Online Valve Lubrication & Sealing

CS2 COPPER SEALANT II

CS2 Copper Sealant II is a lead free, zinc free, quality lubricating compound that handles high temperatures and provides anti-seize performance required for breaking in new tool joints and lubricating drill collars. It is used in all drilling and anti-seize applications in the petroleum industry including refineries, petrochemical plants, and the water well industry. CS2 Copper Sealant II eliminates the need for wire brushing of threads to remove buildup often experienced with compounds that contain lead or zinc. CS2 Copper Sealant II assures constant makeup torque, is effective when used on downhole production tools or pumping equipment, and is recommended for use in areas of high temperatures.

FEATURES:

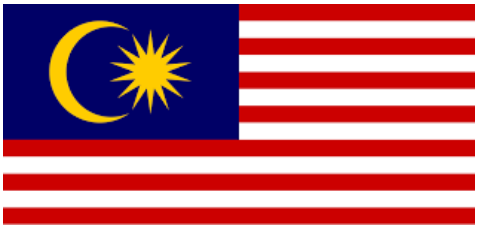
- Provides a tough protective coating
- Resists corrosion and contamination
- Prevents galling & seizing
- High temperature performance
- Lead and zinc-Free
- Friction Factor of 1.15
- Consistent makeup
- Will not buildup in thread roots
- Increases tool joint thread life
- Will not build up on threads
- Meets or exceeds API 5A3
- Excellent pumpability

RECOMMENDED USE:

Recommended for drill collars, drill pipe, tool joints, rotary-shouldered connections, tubing, casing, and fishing tools. It is also recommended for application to stainless steel connections as well as threaded and flanged connections in steam injection, primary recovery, and fire flood wells.

TYPICAL OBSERVATIONS

Color	Copper
Texture	Smooth
Density, lb/gal @ 77°F (25°C)	10.23
Specific Gravity @ 77°F (25°C)	1.23
Dropping Point, ASTM D-2265	500°F (260°C)
Flash point, ASTM-92	>400°F (>204°C)
Penetration, ASTM D-217 @ 77°F (25°C)	310–330
Base Oil Viscosity, cSt @ 40°C (104°C)	360
cSt @ 100°C (212°F)	21
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	0.2%
Oil Separation, ASTM D-1742 @ 77° (25°C)	Nil
4-Ball, Weld Point, Kgf (ASTM D-2596)	620 Typical
Salt Spray Test, ASTM B-117	1000+ hrs
Temperature Range	1.0
	0°F to 450°F (-18°C to 233°C)
Friction Factor, API RP 7A1	1.15
Friction Factor, API RP 5A3	1.2
Brushable To	0°F (-18°C)
Shelf Life (unopened container)	Four years
Copper Corrosion Strip Test ASTM 4048	1A



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CS2