

PRODUCT DESCRIPTION

Syntemp® Drilling Compound 21 is a lead-free and zinc-free lubricating compound that provides anti-seize performance required for breaking in new tool joints and lubricating drill collars. It is recommended for use on all rotary shouldered connections and provides protection against galling and seizing or damage to threads on drill collars and tool joints, even under the most demanding conditions, including the deepest, hottest wells. It eliminates the need for wire brushing of threads to remove buildup often experienced with compounds that contain lead or zinc.

Syntemp® Drilling Compound 21 assures constant makeup torque and is effective when used on downhole production tools or pumping equipment. It is recommended for use in areas of high temperatures.

BENEFITS

- Lead and zinc-free
- Friction factor of 1.2
- High temperature performance
- Provides a tough protective coating
- Resists corrosion and contamination
- Prevents galling & seizing
- Consistent makeup
- Increases tool joint thread life

TYPICAL OBSERVATIONS

Color	Copper
Texture	Smooth
Density, lb/gal@ 77°F (25°C)	10.25
Specific Gravity @ 77°F (25°C)	1.23
Dropping Point, ASTM D-2265	500°F (260°C)
Flash Point, ASTM D-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°F (25°C)	Nil
4-Ball, Weld Point, Kgf (ASTM D-2596)	620 Typical
Salt Spray Test, ASTM B-117	500+ hours
Temperature Range	10°F to 450°F (-12°C to 225°C)
Friction Factor, API RP 5A3 Annex I	1.2
Brushable To	15°F (-9°C)
Shelf Life (unopened container)	Two years

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