

# TEC PLEX<sup>®</sup>

## THREAD SEAL

COPPER-FORTIFIED OCTG PIPE THREAD SEALING COMPOUND

### OIL-FIELD SOLUTIONS

**TEC PLEX<sup>®</sup> Thread Seal** (formerly known as “TecPlex 1460CU”) is designed to protect pipe threads in OCTG pipeline applications. This new-to-industry design is based on Calcium Sulfonate technology to maximize the amount of solids available in the sealing compound, improving the ability to both maximize pipe thread surface contact while preventing galling or seizures of threads during heavy usage. In addition, the compound is fortified with copper solids to further protect the threads as a sacrificial metal, while the anti-corrosive properties of the Calcium Sulfonate help maintain the luster of the copper present in the grease. Compare vs other competitors and see for yourself to decide which has the best corrosion protection.



### TYPICAL APPLICATIONS

- OCTG Oil Drilling Applications
- “Pipe Dope”
- Protects from thread on thread contact

### KEY FEATURES

- Creates a tight seal between connected pipe threads.
- Prevents galling and microscopic welding by delivering a high charge of protective solids between the threads of oil field pipes.
- Inherent protection from rust and corrosion while in use.
- Exceptional resistance to water washout. Easy to apply and stays in place. Doesn't thin out due to circumstantial water exposure.
- Environmentally friendly formulation contains no antimony, barium, chlorine, phosphorus, zinc or free sulfur.



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CHEMICAL COMPANY, INC.



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Southern Africa Region

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#### PHYSICAL PROPERTIES

#### TEST METHOD

#### TYPICAL VALUES

NLGI Grade	ASTM D217	1
Color	Visual	Bright Copper
Texture	Visual	Smooth
Dropping Point, °C	ASTM D2265	316°C +
Worked Penetration, 60 Double Strokes, dmm	ASTM D217	265 - 295
Mechanical Stability		
<i>Worked Penetration 10,000 Double Strokes, % Change</i>	ASTM D217	< 3.0
<i>Worked Penetration 100,000 Double Strokes, % Change</i>	ASTM D217	< 3.0
<i>Worked Penetration 10,000 Double Strokes with 10% Water, % Change</i>	ASTM D217	< 3.0
Roll Stability, % change	ASTM D1831	< 3.0
4-Ball EP:LWI, kgf	ASTM D2596	80
Weld Point, kg	ASTM D2596	620
4-Ball Wear, mm	ASTM D2266	0.50
Fretting Wear, mg	ASTM D4170	<10
Bearing Rust Protection	ASTM D1743	Pass
Salt Fog Corrosion, 1 mil d.f.t., hours	ASTM B117	>500
Water Washout, % removed	ASTM D1264	< 2
Oil Separation, % loss	ASTM D1742	<0.5
Copper Strip Corrosion	ASTM D4048	1a

#### REFER TO MATERIAL SAFETY DATA SHEET FOR HEALTH AND SAFETY INFORMATION.

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