

## **Copper Guard 4**

Forum Copper Guard 4 no-lead tool joint compound is a copper-based, API RP 7A1 tool joint compound that employs a high-quality, low-sulphur petroleum base composition including anti-galling and anti-seizing agents. This compound is not affected by solvents, oil, mud, corrosion, and mild acids or alkalies.

This copper compound is designed for rotary shouldered connections used in shallow and medium depth wells. The compound may be used for drill collars and tool joints to promote proper makeup and stress development in the connection when the proper makeup torque is applied. The compound provides excellent anti-seize protection for all threaded fittings, bolts, or heat exchanger connections up to 500°F and inhibits excessive circumferential makeup as additional torque is applied.



Tool joints, drill collars, and associated rotary shouldered connections for medium depth drilling at higher than normal temperatures.

## **Temperature Range**

Service Rating: 0°F to 500°F

## **Order Information**

ltem #	Net Weight	Pail Size
89986109P	9#	1 Gallon
89986218P	18 #	2 Gallons
89986545P	45 #	5 Gallons

## **Specifications**

Color: Copper

Base Grease: Lithium Complex

Solids: Copper

Graphite

Additives: Corrosion Inhibitor

Anti-Oxidant
Friction Control
Extreme Pressure

Penetration @ 77°F

(ASTM D-217): 310, NLGI Grade 1

Brushability: Applicable at 0°F

COPPER GUARD-4

Relative Density: 1.25 Friction Factor: 1.1

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