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.

Applications
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

<table>
<thead>
<tr>
<th>Item #</th>
<th>Net Weight</th>
<th>Pail Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>89986109P</td>
<td>9 #</td>
<td>1 Gallon</td>
</tr>
<tr>
<td>88986218P</td>
<td>18 #</td>
<td>2 Gallons</td>
</tr>
<tr>
<td>88986545P</td>
<td>45 #</td>
<td>5 Gallons</td>
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</tbody>
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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
Relative Density: 1.25
Friction Factor: 1.1