



## SPECIFICATION SHEET

# COPR 99

### Non-Lead/Non-Zinc Thread Compound for Rotary Shouldered Connections

COLOR	Copper
PENETRATION	310 - 330 (ASTM D 217)
WEIGHT/GALLON	9.9 pounds/gallon
DROPPING POINT	350°F/177°C (typ)
FLASH POINT	385°F/196°C (min)
BRUSHABLE TO	10°F/-12°C
SERVICE RATING	500°F/260°C
TORQUE FACTOR	1.0 (per API RP 7A1)*
CONTAINS	Copper, graphite and other nonmetallic additives

Copr 99 meets or exceeds environmental restrictions and exposure concerns associated with the use of lead and zinc drill collar/tool joint thread compounds. It contains copper flake combined with a proprietary blend of graphite and other solids in a high quality lubricating base grease. Galling and seizing protection are provided by the solids which have the load carrying capability required to support the high bearing stresses that are present in rotary shouldered connections. Copr 99 has a torque correction factor of 1.0 which is the same as found with lead or zinc compounds. It applies easily in a wide range of temperatures and conditions. Copr 99 is resistant to wash-out and will not harden or bleed excessively in storage.

RECOMMENDED FOR all drilling applications (rotary-shouldered connections). Also effective for use on open gear jackup legs.

\*API RP 7A1: "Recommended Practice for Testing of Thread Compound for Rotary Shouldered Connections"

NOTE: Due to operation and equipment variables, this value may require adjustment based on field experience.

A MATERIAL SAFETY DATA SHEET IS AVAILABLE FROM THE MANUFACTURER.  
DO NOT USE ON OXYGEN LINES OR IN OXYGEN ENRICHED ATMOSPHERES.