



SPECIFICATION SHEET

COPR PLUS

Non-lead/Non-zinc Thread Compound for Rotary Shouldered Connections

COLOR	Dark copper
PENETRATION	310-340 (ASTM D-217)
WEIGHT/GALLON	10.2 pounds/gallon
DROPPING POINT	300°F/149°C (typ)
FLASH POINT	350°F/177°C (min)
BRUSHABLE TO	-49°F/-45°C
TORQUE FACTOR	1.1
CONTAINS	Copper, amorphous and synthetic graphite and proprietary additive package.

Copr Plus was developed to handle low temperature application and adherence problems found by drillers in rotary shouldered connections. Copr Plus is a non-lead, non-zinc compound designed for all types of drilling applications.. It addresses the environmental concerns and costs of using thread compounds that contain these hazardous metals. Copr Plus combines copper flake with a proprietary combination of graphite, non-metallic solids, and extreme pressure additives. Galling and seizing protection is provided by the solid additives and the extreme pressure additive package provides the load carrying capability to handle the high bearing stresses found in rotary shouldered connections. Copr Plus has a torque correction factor of 1.1 (10% additional torque required) which will provide additional resistance to down-hole make up as compared to lead (API Modified) or zinc compounds.

Copr Plus applies easily to cold wet connections exposed to seawater in ambient temperatures as low as -49°F/-45°C and yet delivers optimum performance in all types of wells. The grease in Copr Plus will provide lubrication and protection to 400°F/204°C and the solids will protect to 1000°F/538°C.

RECOMMENDED FOR all drilling applications (rotary-shouldered connections).

DO NOT USE ON OXYGEN LINES OR IN OXYGEN ENRICHED ATMOSPHERES.