



HORIZONTAL DIRECTIONAL DRILLING PRODUCTS

1540 VECTOR® COPPER COMPOUND

Horizontal Drilling Compound

PRODUCT DESCRIPTION

1540 Vector Copper Compound is a cost effective copper based tool joint and rod lubricant for light to medium drilling applications. 1540 contains copper and zinc, as well as EP additives to prevent galling and thread damage. The lead-free formulation of Vector 1540 prevents compound build-up in the thread roots, a common problem with some other compounds. Vector 1540 can be properly applied by hand brushing or by automatic application systems. 1540 will not continue to make up during drilling operations as will some slicker compounds.

The premium grease base provides protection to the threads under the high stresses of HDD equipment, and is wash out resistant to prevent wash out during operations. Vector 1540 Copper Compound is nonflammable and can be applied at temperatures as low as 0° F.

BENEFITS

- Lead-Free
- Contains EP Additives
- Resists make-up during drilling operations
- Resists wash out
- Excellent pumpability

APPLICATION

Vector 1540 Copper Compound is used as a tool joint compound and rod lubricant in light to medium duty HDD operations. It can be applied to threads by brushing or using automatic lubrication systems on many HDD rigs.

TYPICAL OBSERVATIONS

Color	Copper/Brown
Appearance	Smooth Paste
Density, lb/gal@ 77°F (25°C)	9.9
Specific Gravity @ 77°F (25°C)	1.108
Dropping Point, ASTM D-2265	390°F (199°C)
Flash Point, ASTM D-92	440°F (227°C)
Friction Factor	1.2
Penetration, ASTM D-217 @ 77°F (25°C)	330–340
Base Oil Viscosity cSt @ 40°C	360
Corrosion Preventive Properties, ASTM D-1743 125°F (51°C)	Pass
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	1.80%
Oil Separation, ASTM D-1742 @ 77°F (25°C)	<1.0%
4-Ball, Weld Point, Kgf (ASTM D-2596)	200 Pass 250 Weld
Salt Spray Test, ASTM B-117	500+ hours
Copper Strip Corrosion, ASTM D-4048	Pass
Temperature Range	0°F to 400°F (-17°C to 204°C)
Shelf Life (unopened container)	Four years

RELATED PRODUCTS

- 1520 Vector Premium
- 1521 Vector Copper Seal II



Liquid-O-Ring®*

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Made in U.S.A.

The product information and specifications listed in this publication are constantly being updated to keep up with government regulations and technology changes. Please visit our website, www.oilcenter.com, or contact your Account Representative for the most current information relating to this product.