



HORIZONTAL DIRECTIONAL DRILLING PRODUCTS

1521 VECTOR[®] COPPER SEAL II

Horizontal Drilling Compound

PRODUCT DESCRIPTION

1521 Vector Copper Seal II Horizontal Directional Drilling Compound is a lead and zinc-free compound formulated for use in moderate to extreme drilling conditions. It has been used successfully in large diameter horizontal drilling operations, as well as general operations. It provides protection against galling, seizing, and thread damage under the most demanding conditions. It eliminates the need for wire brushing threads after drilling operations to remove compound build-up experienced with many other compounds.

1521 Vector Copper Seal II assures consistent make-up and break-out torque. It is used in many oilfield drilling operations, as well as in refineries, petro chemical plants and in water well drilling.

BENEFITS

- **Lead and Zinc-Free**
- **Will not build up in thread roots**
- **Prevents Galling and Seizing**
- **Used in extreme drilling conditions**
- **Used for large diameter HDD Operations**
- **Friction Factor 1.15**
- **Excellent pumpability**

APPLICATION

1520 Vector Copper Seal II can be used in moderate to extreme HDD operations.

TYPICAL OBSERVATIONS

Color	Copper
Texture	Smooth
Density, lb/gal@ 77°F (25°C)	10.25
Specific Gravity @ 77°F (25°C)	1.23
Dropping Point, ASTM D-2265	500°F (260°C)
Flash Point, ASTM D-92	>400°F (>204°C)
Penetration, ASTM D-217 @ 77°F (251°C)	310–330
Base Oil Viscosity cSt @ 40°C (104°C)	360
Evaporation Loss, ASTM D-972 @ 210°F (98°C)	0.2%
Oil Separation, ASTM D-1742 @ 77°F (25°C)	Nil
Temperature Range	0°F to 450°F (-18°C to 233°C)
Friction Factor, API RP 7A1	1.15
Shelf Life (unopened container)	Four years

RELATED PRODUCTS

- 1501 Vector Plus
- 1520 Vector Premium



*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.