



HORIZONTAL DIRECTIONAL DRILLING PRODUCTS

1501 VECTOR[®] PLUS

Horizontal Drilling Compound

PRODUCT DESCRIPTION

1501 Vector Plus Horizontal Drilling Compound is a lead and zinc-free quality lubricating compound that handles high temperatures and provides excellent anti-seize and anti-galling performance. It protects against rotational, bearing, and tensile stress. Vector Plus can be used in most horizontal drilling applications. It is a blend of metallic and non-metallic solids enhanced with a premium EP package.

BENEFITS

- Can be used in most horizontal drilling applications
- Protects against galling
- Also used in anti-seize applications in petroleum industry
- Eliminates the need for wire brushing of threads to remove buildup
- Excellent pumpability

APPLICATION

1501 Vector Plus is recommended for use on horizontal drilling connections and can be applied using automatic lubricating systems or manual brushing.

TYPICAL OBSERVATIONS

Color	Copper
Texture	Smooth
Density, lb/gal@ 77°F (25°C)	9.25
Specific Gravity @ 77°F (25°C)	1.108
Dropping Point, ASTM D-2265	280°F (137°C)
Flash Point, ASTM D-92	>400°F (>204°C)
Penetration, ASTM D-217 @ 77°F (25°C)	355-365
Base Oil Viscosity	
cSt @ 40°C	32
Evaporation Loss,	
ASTM D-972 @ 210°F (98°C)	0.2%
Oil Separation, ASTM D-1742 @ 77°F (25°C)	Nil
4-Ball, Weld Point, Kgf (ASTM D-2596)	620 Typical
Temperature Range	-32°F to 450°F (-35°C to 232°C)
Brushable To	15°F (-9°C)
Friction Factor, API RP 5A3 Annex I	1.0
Salt Spray Test, ASTM B-117	1000+ hours
Brushable To	-20°F (-29°C)
Shelf Life (unopened container)	Four years

RELATED PRODUCTS

1500 Vector Premium



NSF Reg. No. 158291

AN OIL CENTER
RESEARCH LLC PRODUCT



Liquid-O-Ring^{®*}

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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.