

1776 HDD

PREMIUM COPPER



OBF SERVICES LLC
HDD SUPPLY

HORIZONTAL DRILLING COMPOUND

LEAD FREE | FRICTION FACTOR 1.2

- Will not build up in thread roots
- Prevents galling & thread damage
- Used in light to medium drilling conditions
- Used for large diameter HDD operations

PRODUCT DESCRIPTION

1776 HDD PREMIUM COPPER COMPOUND is a cost effective copper-based tool joint and rod lubricant for light to medium drilling applications. **1776** contains copper and zinc, as well as EP additives to prevent galling and thread damage. The lead-free formulation of **1776** prevents compound build-up in the thread roots, a common problem with some other compounds. **1776** can be properly applied by hand brushing or by automatic application systems. **1776** 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. **1776** is nonflammable and can be applied at temperatures as low as 0°F.

APPLICATION

1776 HDD PREMIUM 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



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