



20/20

HEAVY-DUTY COPPER JOINT COMPOUND

- GEAR OILS
- MOTOR OILS
- HYDRAULIC OILS
- PIPE COATINGS
- THREAD SEALANTS
- BEARING GREASES
- SPECIALTY GREASES
- THREAD COMPOUNDS
- SUCKER ROD COATINGS
- OUTSIDE PRESERVATIVES
- WIRELINE GREASE SEALS
- CLEANERS & DEGREASERS
- PIPE STORAGE COMPOUNDS
- RUST & CORROSION INHIBITORS
- THREAD LOCKING COMPOUNDS
- VALVE LUBRICANTS & SEALANTS
- TOOL JOINT & DRILL COLLAR COMPOUNDS

PRODUCT DESCRIPTION

20/20 is a heavy-duty, copper tool joint compound designed to meet the tough drilling conditions of the oilfield market—high speed, high torque, excessive weight, and directional drilling in hot, high pressure, deep wells. It is manufactured using the finest copper flake, air-floated graphite, and molydisulfide in a high quality petroleum base compound.

20/20 prevents galling and seizing and protects against washout, corrosion, and rust. The superior corrosion protection helps prolong thread life. High stress in drill pipe connections is prevented with the use of 20/20 thereby extending the useful life of the connections. Its superior adhering characteristics allow 20/20 to stick perfectly to wet joints. 20/20 will not harden or dry out.

BENEFITS

- Lead-free
- Designed for high speed, high torque, excessive weight, and directional drilling operations
- Prevents galling and seizing
- Protects against corrosion and washouts
- Will not harden or dry out
- Sticks to wet joints
- Prolongs thread life

APPLICATION

20/20 is recommended for use on tool joints, drill collars, and subsurface drilling tools and it may also be used on tubing, casing, or other threaded connections.

TYPICAL OBSERVATIONS

Color	Copper
Texture	Grainy
Thickener	Lithium Soap
Fluid Type	Hydrocarbon Base
Density, lb/gal @ 77°F (25°C)	9.97
Specific Gravity @ 77°F (25°C)	1.195
Dropping Point, ASTM D-2265	360°F (182°C)
Flash Point, ASTM D-92	475°F (246°C)
Penetration,	
ASTM D-217 worked @ 77°F (25°C)	325
NLGI Grade	1
Base Oil Viscosity	
CST @ 100°F (37°C)	360
Water Washout Characteristics	
ASTM D-1264 @ 100°F (37°C)	Nil
Evaporation Loss,	
ASTM D-972 @ 210°F (98°C)	0.32%
Copper Strip Corrosion, ASTM D-4048	1A
Oil Separation,	
ASTM D-1742 @ 77°F (25°C)	<1%
Shell 4-Ball,	
ASTM D-2596, Weld Point, kgf	500
Friction Factor, API RP 5A3 Annex I	1.0
Shelf Life (unopened container)	Two years

The Friction Factor is determined using standardized equipment and tests performed in accordance with API RP 5A3/ISO 13678 under laboratory conditions. In actual field use pipe size, metallurgy, thread geometry, and drilling mud contamination can effect the makeup torque. Adjustments may be required based on experience and knowledge.

