

## Kopal Premium

Copper based high performance drill collar and tool joint compound



### YOUR BENEFITS

- Contains copper flakes, non-metallic and other premium quality EP & AW additives that provide unsurpassed lubrication performance.
- Good brush ability and protection against rust & corrosion.
- Excessive circumferential is prevented by increasing the coefficient of friction under compressive forces.
- EP additives provide protection against galling and seizing and help in easy breakout.
- Contains no lead and zinc.
- Excellent frictional characteristics help to tighten the connections at desired stress levels.
- Service Rating: (-) 18°C [0°F] to (+) 180°C [356°F].

### APPLICATION

- For lubrication of Jack up rig leg racks and pinions.
- For lubrication of drill pipes, collars, tools and jacking system.
- For horizontal drilling machines.

CHARACTERISTICS	TEST METHOD	UNIT	TECHNICAL VALUES
Appearance	Visual	-	Smooth
Colour	Visual	-	Dark Copper
NLGI Grade	-	-	#2/1
Flash Point (of Base Oil)	ASTM D 92	°C	220
Worked penetration @ 25°C	ASTM D 217	0.1 mm	290 - 310
Dropping Point	ASTM D 2265	°C	+190
Four Ball Weld Load	ASTM D 2596	Kgs	800
Oil Separation @100°C, 24 hrs.	ASTM D 6184	%	< 2.5
Copper Strip Corrosion Test	ASTM D 4048	Rating	1a
Solid Lubricant	-	-	Copper / Graphite
Operating Temperature			
Base Oil	-	°C	-18 / +180
Solid Lubricants	-	°C	-40 / +1100

#### INDUSTRY:

Oil & Gas

#### PACK SIZE:

5 Kg / 20 kg Bucket

#### SHELF LIFE:

24 Months

The values quoted above are typical and do not constitute a specification.

Marginal variation in shade can be expected from batch to batch. The color has no effect on the lubricating properties of the product.

MSDS available on request. Due to continual upgradation of products above data is subject to change without notice.

This supersedes our previously issued data sheets.

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