

Technical data sheet



Description

SC LUB is a specially formulated ester additive developed to solve torque, drag and bit balling problems when drilling in plastic formation as well as to limit rapid wear of the tools when drilling in hard and abrasive soils.

SC LUB is readily dispersible in all water based mud systems.

Applications

SC LUB based drilling muds are dedicated to:

- Water well drilling, soil sampling
- Horizontal directional drilling (HDD)

Benefits

- Improve lubricity, reducing torque and drag
- Prevents bit balling
- Cost effective
- Biodegradable additive
- Friendly to the environment
- Fully compatible with our SC drilling additives and BENTONIL range.
- Increase drilling tools life time.Reduce clay sticking and prevent clogging

Physical properties

Appearance	White powder
Apparent density:	0,9 g/cm ³
Bulk viscosity at 40 °C	8 – 10 mm ² /s
Flash point	154

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EDITION
April 2014



Clariant International Ltd

Guidelines for use

Depending on the application and soil conditions, the dosage range is between 1 to 3 L/ m³ of water. Recommended mixing time on low speed is 5-10 minutes. Higher concentration can be required to maximise SC LUB efficiency especially in difficult ground conditions (shales, plastic clay, gumbo...) and specific drilling conditions e.g. high inclined well.

Indicatives dosages for Extreme Pressure application:

Hardness abrasivity	Rock type	Hardness scale	Concentration SC LUB
Medium hard abrasive	Arenaceous limestone calcareous sandstone, schist.	4	2 l/m ³
Hard slightly abrasive	Limestone with dolomite, hard limestones, dolomite, schist, serpentine	5	2 l/m ³
Hard non abrasive	Andesite, diabase, dolomite, haemetite, marble, magnetite, peridot, mica schist, serpentine, syenite	6	2-2,5 l/m ³
Very hard	Amphibolite, basalt, diorite, gabbro, gneiss, granite, porphyry, rhyolite, trachyte	7	2-3 l/m ³
Very abrasive	Conglomerate, hard sandstone quartzite, emery stone, pyrite	8	3-4 l/m ³

Contact your CLARIANT technical representative for any further information or references.

Packaging

SC LUB is packed in 900 kg IBC container and 20 kg plastic drums.

Storage

Keep the product in its original closed packaging above 0°C and no longer than 12 months.

Related Documents

MSDS & application sheets available on demand. Contact your CLARIANT technical representative for any further information or references.

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