



东营明德石油科技有限公司

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Solid Lubricant for Drilling Fluid

1. Brief Introduction

The product is a black free-flowing powder, made of premium natural active graphite together with a variety of surfactants and manufactured by the fine process.

2. Main components and function

The product is effective in reducing the frictional resistance between the drilling tools, casing and borehole wall and prevent sticking therefore significantly reduce the occurrence of the downhole accident. Meanwhile, it closes micro- gap of the sidewall, reduces drilling fluid filtrate loss and protects the reservoir.

Performance

- (1) Harmless to Drilling mud performance, higher lubrication performance
- (2) No blistering, no toxic and no pollution to environment
- (3) Excellent in temperature resistance up to 250°C with good compatibility.

3. Technical Specification

Table 1 Technical Specification of Solid lubricant for drilling fluid

Item	Specification
Appearance	Silver-gray or brownish black powder or columnar grains
Volatile, %	≤12.0
Density, g/cm ³	1.5~2.0
Sieve Residue, %	≤10.0
Reduced Rate of the Lubricating Coefficient, %	≥45

4. Application Scope

Horizontal well, directional well, extended reach well and exploration well.



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5. Usage and Dosage

The product can be made into glue solution or directly added into drilling mud and the regular recommended dosage is 1%-2%.

6. Packaging and Storage

It is packed in paper/plastic sack of 25kg net weight each and stored in cool, dry and ventilation places。Guarantee period is 1 year long.

7. Environment and Safety

This product is non-toxic and harmless to human and environment. No need of special attention when using. Avoid contacting with eyes, skin and clothes, otherwise wash with plenty of water. No swallowing

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钻井液用固体润滑剂

一、概况

本产品为黑色自由流动粉末，以优质天然活性石墨为原料，配以多种表面活性剂，经多道工序精细加工而成。

二、主要成分与功能

本品主要通过机械物理作用，降低钻具、套管与井壁之间的摩擦阻力，防卡降阻，可大大减少井下事故的发生，同时可以封闭井壁的微空隙，兼有降低钻井液滤失量和保护储层的作用。

性能特点：

- (1) 对钻井液的性能无不良影响，具有优良的润滑性能；
- (2) 不起泡，无毒害，对环境无污染；
- (3) 抗高温性能优越，可达 250℃，具有良好的配伍性。

三、技术指标

表 1 钻井液用固体润滑剂技术指标

项目	指标
外观	银灰色或棕黑色粉末或柱状颗粒
挥发份, % ≤	12.0
密度, g/cm ³ =	1.5~2.0
筛余量, % ≤	10.0
润滑系数降低率, % ≥	45

四、适用范围

适用于水平井、定向井、大位移井及探井使用。

五、用法与用量

该产品可配成胶液，或直接加入钻井液中。加量一般为 1%~2%。

六、包装与贮存

银灰色或棕黑色粉末或柱状颗粒，采用三合一复合袋包装，每袋净重 25 公斤。贮存于阴凉、干燥、通风处。保质期为 1 年。

七、环境与安全

本产品无毒，对人和环境无害，使用过程不需要特别注意，但避免与眼睛、皮肤和衣服接触，否则用大量的清水冲洗。不可内服。