

QMAXDRILL

Description

QMAXDRILL is an inhibitive amine for clay stabilization in water sensitive shale formations and other clay containing formations, including the reservoir. As a proprietary product, QMAXDRILL is formulated to provide a high level of clay inhibition for smectitic and mixed-layer clays while complying with environmental regulations. Based on a cationic multivalent amine chemistry with a small ionic radius.

QMAXDRILL interacts with the clays similarly to the Potassium ion. The amine cation attaches to the negatively charged sites of the clay interstitial layer via cation exchange. Its small size helps minimize the clay hydration/swelling and thus stabilizing the water sensitive formations.

Applications

A highly effective clay inhibitor, QMAXDRILL is used in various water based muds such as high performance/clay free polymer systems, bentonite based systems, clear water drilling and completion fluids. The product is compatible with most mud products and it is used for formulating systems for drilling intermediate sections containing sensitive formations and clay containing reservoirs.

Features and Benefits

- Highly effective clay inhibitor
- Minimize bit and BHA balling
- Enhanced ROP
- Cost effective
- Works synergistically with other clay inhibitors such as PHPA
- Helps maintaining low LGS content in the fluid.

Typical Properties

Appearance	Liquid
Color	Clear to off-yellow
Specific Gravity	1.07 – 1.09
pH	6.5 – 7.5
Solubility	Soluble in water

Recommended Treatment

QMAXDRILL is usually added and maintained at a concentration of 0.2 – 0.6 gpb (4 – 14 L/m³), depending on the degree of reactivity/clay content of the shale formation drilled, diameter of wellbore and the rate of penetration. The available amine content in the filtrate is tested at the wellsite.

Limitations

Avoid using strong anionic products such as thinners/dispersants to minimize the risk of amine depletion in the mud. Maintain the fluid pH below 10.5 for maximum amine effectiveness.

Safety and Handling

Prior to using this product, refer to the safety data sheet for information on use of personal protective equipment, safe handling, storage, transport, and disposal.

Packaging

QMAXDRILL is packaged in 55 gal (208 L) drums and 20 L pails.

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