Product Bulletin

DMS

P1304.9305

OBM Drilling

Product Description

DMS is a concentrated aqueous solution of a non-ionic surfactant used to enhance control of rheology and filtration properties of muds.

Features and Benefits

DMS aggregates mud solids into larger particles, reducing solids carry over into porous zones during initial formation of filter cake. Inter particle forces are reduced through reorientation of particles, thereby lowering gel strengths and yield points. It is compatible with all water base drilling fluid additives and is tolerant to salt, anhydrite or cement contamination. It will not degrade at any temperature anticipated in drilling. Exhibits thermal stability in excess of 400 ?F. It is non–damaging to equipment and poses no health risk in normal handling. It lubricates for reduced bit-balling and less differential sticking of drill pipe.

International Shipping References

Transportation of DMS™ is not restricted by any regulatory agency.

Safe Handling Recommendations

Utilize normal precautions for employee protection when handling chemical products. Utilize appropriate respirator, gloves, goggles and apron. Refer to the Material Safety Data Sheet (MSDS) for this product prior to use.

Typical Physical Properties

- Physical State: Liquid
- Max Temperature: 400
- Reservoir Compatible: Non-Reservoir
- Category: Detergents/Cleaners
- Sub Category: Non-Ionic Surfactant
- Product Tier: Regular
- SG value: 1
- Appearance: Colourless liquid
- pH (Neat): 5 - 7
- Specific Gravity (25 ?C): 0.98 - 1.02
- Flash Point: >100 ?C

Product Function

DMS is a chemically stable surfactant and simplifies the control of viscosity and gels. It has high tolerance to clay solids with minimum effect to viscosity.

Recommended Treatment

Stabilizing filtration rates will require treatments ranging from 80 – 350 L per 20 m3 of mud. Stabilizing flow properties of water-base mud, treatments will range from 15 to 250 L per 20 m3. Stabilizing drilling fluids at high temperature conditions will require dosages in the range of 100 to 400 L per 20 m3 of mud. The concentration of DMS™required to stabilize oil in water emulsions is in the range of 0.5– 2.0% and is dependent upon the amount and properties of the oil to be emulsified.

Standard Packing

DMS™ is packaged in 55 USG (208 liters) HDPE drum.

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