

Oilfield Chemical Additives Supplier for

- Drilling
- Completion
- Production
- Stimulation

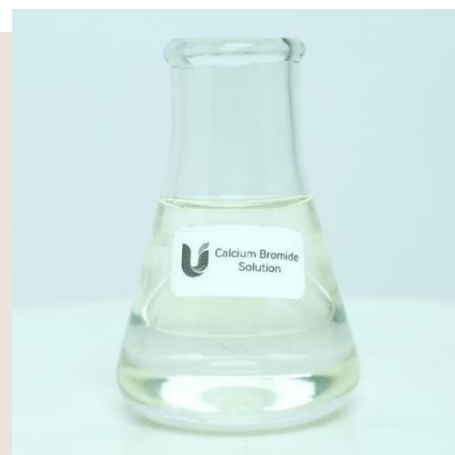
Calcium Bromide Liquid 52%

CAS No.:7789-41-5



Calcium Bromide Liquid 52%

Calcium bromide brine can be used to formulate the drilling, completion and workover fluids. The application of bromides in oil fields is extensive, primarily used in drilling fluids, water treatment, and corrosion prevention. Bromides, including calcium bromide and calcium bromide, play crucial roles in the oil field extraction process, contributing to increased production efficiency, equipment protection, and environmental safety.



Technical Index

Appearance	Clear to light yellow liquid
Assay, %min	52.0
Cl ⁻ , %max	0.5
SO ₄ ²⁻ , %max	0.01
Moisture, %max	0.5
Density @20°C, g/cm ³	1.70min
Water insoluble, %max	0.3
Moisture, %max	3.0
Heavy metal (Pb), ppm max	5

Product introduction

Firstly, the use of bromides in drilling fluids is one of their key applications. In oil field drilling operations, drilling fluid is a vital working liquid that requires specific density and viscosity to balance downhole formation pressure, prevent wellbore collapse, and provide adequate lubrication. Bromides serve as additives to adjust the density and viscosity of drilling fluids, ensuring safe and efficient drilling operations.

Secondly, bromides are essential in oil field water treatment. Wastewater generated during oil field extraction processes needs to be treated to meet environmental standards and ensure safe discharge or reuse. Bromides can be used for disinfection, deodorization, and sterilization of wastewater, ensuring the quality and safety of injected water.

Additionally, bromides can be utilized as corrosion inhibitors to protect oil field pipelines and equipment, thereby extending their service life. In the harsh conditions of oil field environments, pipelines and equipment are susceptible to corrosion. By adding bromides and other corrosion inhibitors, pipelines and equipment can be effectively protected, reducing maintenance costs and prolonging service life.

In conclusion, the application of bromides in oil fields is diverse, encompassing the regulation of

drilling fluids, water treatment, and corrosion prevention. Their application contributes to improved efficiency in oil field extraction, equipment protection, and environmental safety. As oil field extraction technologies continue to advance, the role of bromides in oil field applications will become increasingly important, providing further support and assurance for oil field extraction.

Application

This product is a Clear to light yellow liquid and transparent liquid that has been configured and is ready for use right out of the package without additional handling. Due to the higher relative atomic mass of calcium ions and the higher solubility of calcium bromide, this product achieves a higher brine density than sodium bromide. For some calcium-containing formations, the product can also inhibit the dissolution of the formation to a certain extent, which can improve the stability and safety of the operation.

This product is not suitable for use in working environments that are prone to precipitation with calcium ions, such as carbonate, sulfate, etc.

Recommended Handling

All personnel handling this material must handle it as an industrial chemical, wearing protective equipment and observing the precautions as described in the Material Safety Data Sheet.

Packaging and Storage

Packed in 1000 liter IBC tank.

Store in dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and /or stacking.

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