

## Oilfield Chemical Additives Supplier for

- Drilling
- Completion
- Production
- Stimulation

## ***Sodium Bromide Brine***

CAS No.:7647-15-6



# Sodium Bromide Brine

**S**odium Bromide 45% is a clear, used in various industrial applications, Sodium bromide brine has a high density which makes it an effective fluid for drilling and completion operations. It can help to prevent formation fluids from entering the wellbore and stabilize the formation, allowing for efficient drilling and completion.



## Technical Index

|                             |                         |
|-----------------------------|-------------------------|
| Appearance                  | Clear Colourless Liquid |
| Assay, %min                 | 45                      |
| Cl <sup>-</sup> , %max      | 0.5                     |
| Specific Gravity @ 20°C,min | 1.5                     |
| pH @ 5% DI water            | 5.5 - 8.5               |

## Product introduction

Sodium bromide brine is highly soluble in water and has excellent thermal stability, making it suitable for use in high-temperature environments. It is also non-toxic and non-corrosive, making it a safe and reliable choice for various industrial applications.

Sodium Bromide is used to form clear-brine workover and completion fluid for densities ranging from 8.4 to 12.5 lb/gal (1007 to 1498 kg/m<sup>3</sup>). These fluids are used where waters contain high concentrations of bicarbonate and sulfate ions. The application of bromides in oil fields is extensive, primarily used in drilling fluids, water treatment, and corrosion prevention. Bromides, including sodium bromide and calcium bromide, play crucial roles in the oil field extraction process, contributing to increased production efficiency, equipment protection, and environmental safety.

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

Sodium Bromide is used as a completion and workover fluid either by itself or with sodium chloride, bromide, or with zinc bromide. Operation fluids for offshore oil wells, such as well finishing liquid, well repair liquid, stationary liquid etc. Its main advantage is in formations containing carbonate and/or sulfate ions which give rise to precipitation in the presence of other multivalent completion or workover fluids. 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.

## 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 200 Litre HDPE drum or 1000 Litre IBC drum.

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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Youzhu Chem offers a wide range of oil field chemicals widely used in the various stages of oil and gas production. And we have developed the finest quality Oil Soluble Demulsifier, Water Soluble Demulsifier and Corrosion Inhibitors. Our products enable customers to maximize value in their oilfield operations, and increase the overall efficiency of the well.