

Sodium Chloride

Description

Sodium chloride is commonly known as salt or halite. It is an inorganic compound with chemical formula of NaCl. It is the salt most responsible for the salinity of seawater and abundantly available in nature.

Applications

Sodium chloride has multiple functions in drilling and completion fluids. It is used to increase the fluid density, reduces the freezing point of water base drilling fluids, inhibits hydrate formation, provides shale control. Additionally it can be used as an internal brine for oil or synthetic base drilling fluids to balance formation salinity and avoid osmotic transport. It is used as a base brine for completion and workover fluids.

It has advantageous over other divalent brines as it is monovalent and has no precipitation issues. Sodium Chloride has a limitation of 10.0 ppg when using it as a weighting material. Chloride and sodium ions can be an environmental concern depending on the operation regions.

Sized sodium chloride are used as bridging agent in saturated brine for create a special type of reservoir drill-in fluid with minimized formation damage and easy clean-up.

Features and Benefits

- Abundantly available
- Cost-effective
- Easy to handle
- High purity products

Typical Properties

Appearance	Crystal
Color	white
Solubility (20°C)	35.9 gr/100gr water
Saturation Point	26.5%
Specific Gravity	2.2

Recommended Treatment

Sodium chloride is used in a wide range of concentrations depending on the application. For water base mud, it is typically used at 3% wt for clay inhibition purposes. For completion and work over, it depends on the density requirement.

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

Sodium Chloride is available in 55 lb (25 kg) bag.

No representations or warranties, either express or implied, of merchantability, fitness for a specific purpose, and/or that the products to which the information referred to in this document may be used without infringing the intellectual property rights of others, or of any other nature, are made with respect to information provided in this document, or the products referred to herein. In no case shall the information be considered a part of our terms and conditions of sale of QMax products or services. Use of the information provided in this report is at the user's risk.

“Excellence, Innovation, Integrity, Teamwork and Safety”

www.qmax.com – 11700 Katy Fwy, Ste 200, Houston, TX 77079 – Tel.: 832 672 4476