

Description

WELLBROM 12.5 is a clear brine completion fluid based on an aqueous solution of sodium bromide.

Applications

Because of its high density, WELLBROM 12.5 is used extensively as a completion, fracturing, workover and packer fluid in oilfield applications.

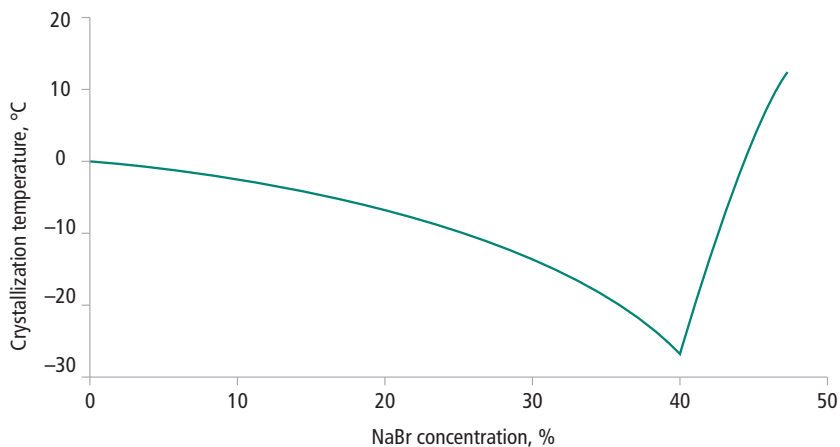
Specifications

| | |
|--------------------------------|--------|
| Appearance | Clear |
| Density, 70°F (21.1°C), lb/gal | ≥12.30 |

Physical properties

| | |
|---------------------------------|--|
| Appearance | Clear liquid, light to water-white color |
| Boiling point, °F (°C) | 230–243 (110–117) |
| Flash point | None |
| Odor | Slight |
| Specific gravity, 70°F (21.1°C) | ≥1.47 |
| Color, APHA | ≤30 |
| pH (diluted 1:10 with water) | 7.0–8.5 |

Variation of the crystallization temperature of NaBr with concentration.



Compatibility

Compatible materials of construction: This product is compatible with most non-metallic materials of construction, including fiber-glass-reinforced plastic (vinyl ester and polyester FRP), polyvinyl chloride (PVC), chlorinated polyvinyl chloride (CPVC), high-density polyethylene, polypropylene, Viton®, Teflon®, natural rubber, chlorobutyl rubber, Hypalon®, Halar® ethylene chlorotrifluoroethylene, Tefzel® ethylene/tetrafluoroethylene copolymer and most high-performance polytetrafluoroethylene-based gasket materials such as W.L. Gore GORE-TEX® and UPG Style 800, and Garlock Gylon® styles 3504 and 3500.

Titanium and high-nickel alloys such as Incone® 625 and 686, and Hastelloy® C-22 and C276 are also suitably compatible.

Incompatible materials of construction: The compatibility of this product with common metals depends on storage conditions and the environment the material is in. Aluminum, brass, carbon steel, copper, stainless steel and other common metals are generally not suitable for use. Carbon steel and copper can result in discoloration of the product. Aluminum suffers pitting attack. Dissolved oxygen increases the corrosion rate of stainless steel.

Recommended materials of construction for storage tanks: Vinyl ester FRP such as Ashland Derakane® 411 and 470, and bisphenol A fumarate polyester FRP such as Reichhold Atlae 6694 are suitable for use.

Recommended materials of construction for piping and valves: For piping, an adhesive socket FRP system such as the Reinforced Plastics Systems P150 series or the Smith Fibercast CL-2030 series is suitable. A flat-faced FRP ball valve such as the Nil-Cor 310 series is a good choice for FRP piping. Polypropylene-lined steel also is suitable. For low-pressure lines (<5 psig) such as overflows and drains, solid PVC or CPVC piping can be used, but should be safeguarded from mechanical damage.

Shipping information

Container information:

Available in tank trailers and drums

Shipping classification:

Not regulated for transportation

Safety and handling information

For specific safety, toxicity and handling information, please refer to the material safety data sheet for this product.

Chemical registration numbers

CAS: 7647-15-6
EINECS: 231-599-9
MITI: 1-113



AMERICAS 451 Florida Street • Baton Rouge, Louisiana 70801-1765 • Tel +1 225-388-7402 or 800-535-3030 • Fax +1 225-388-7848

EUROPE Parc Scientifique de LLN • Rue du Bosquet 9 • B-1348 Louvain-la-Nueve Sud, Belgium • Tel +32-10-48-1711 • Fax +32-10-48-1717

ASIA PACIFIC 16h Floor, Fukoku Science Building • 2-2-2, Uchisawai-cho • Chiyoda-Ku, Tokyo 100-0011, Japan • Tel +81-3-5251-0796 • Fax: +81-3-3500-5623

ASIA PACIFIC China World Tower, Room 1317 • No. 1 Jan Guo Mon Wai Avenue • Beijing, 100004 China • Tel +86-10-6505-4153 or +86-10-6505-4154 • Fax +86-10-6505-4150

