

# WELLBROM<sup>®</sup> 19.2 Completion Fluid

## DESCRIPTION

WELLBROM 19.2 is a clear brine completion fluid based on an aqueous solution of zinc bromide and calcium bromide.

## APPLICATIONS

Because of its high density, WELLBROM 19.2 is used extensively as a completion, workover and packer fluid in oilfield applications.

## SPECIFICATIONS

Appearance	Honey-colored, clear nonvolatile liquid
Density, 70°F (21.1°C), lb/gal	≥19.2
pH (diluted 1:10 with water)	5-7

## PHYSICAL PROPERTIES

Appearance	Honey-colored, clear nonvolatile liquid
Boiling point, °F (°C)	c. 288 (142)
Flash point	None
Odor	Slight
Specific gravity, 70°F (21.1°C)	≥2.30

## 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<sup>®</sup>, Teflon<sup>®</sup>, natural rubber, chlorobutyl rubber, Hypalon<sup>®</sup>, Halar<sup>®</sup> ethylene chlorotrifluoroethylene, Tefzel<sup>®</sup> ethylene/tetrafluoroethylene copolymer and most high-performance polytetrafluoroethylene-based gasket materials such as W.L. Gore GORE-TEX<sup>®</sup> and UPG Style 800, and Garlock Gylon<sup>®</sup> styles 3504 and 3500.

Titanium and high-nickel alloys such as Inconel<sup>®</sup> 625 and 686, and Hastelloy<sup>®</sup> 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<sup>®</sup> 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.

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**SAFETY AND HANDLING  
INFORMATION**

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

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**CHEMICAL REGISTRATION NUMBERS**

CAS: 7699-45-8 (ZnBr<sub>2</sub>), 7769 (CaBr<sub>2</sub>)  
EINECS: 231-718-4 (ZnBr<sub>2</sub>), 232-164-6 (CaBr<sub>2</sub>)  
MITI: 1-118 (ZnBr<sub>2</sub>), 1-1038 (CaBr<sub>2</sub>)

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