WELLBROM® 12.5 Completion Fluid

DESCRIPTION	WELLBROM 12.5 is a clear brine cor sodium bromide.	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 in color	
	Boiling point, °F (°C)	230-243 (110-117)	
	Flash point	None	

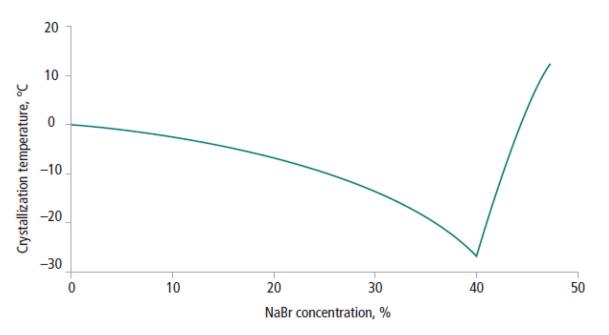
$\underline{\textbf{Variation of the crystallization temperature of NaBr with concentration}}$

Specific gravity, 70°F (21.1°C)

Slight

≥1.47

Odor





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 ploytetrafluoroethylene-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 Inconel® 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.

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



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