

WELLBROM® 14.2 Completion Fluid

DESCRIPTION

WELLBROM 14.2 is a clear brine completion fluid based on an aqueous solution of calcium bromide.

APPLICATIONS

Because of its high density, WELLBROM 14.2 is used extensively as a completion, drill-in, workover and packer fluid in oilfield applications.

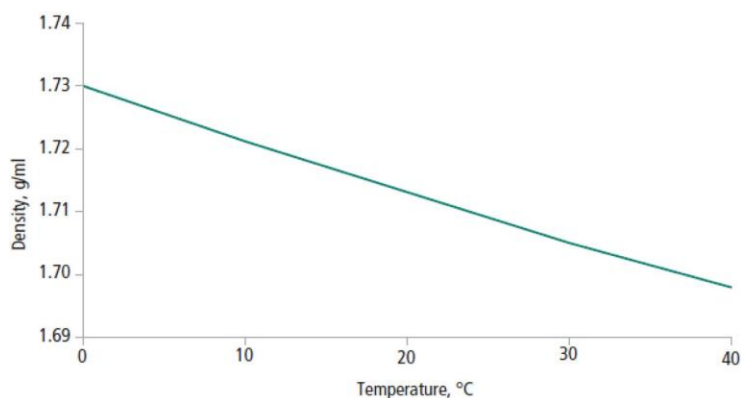
SPECIFICATIONS

Appearance	Clear
Color, APHA	≤125
Density, 70°F (21.1°C), lb/gal	≥14.2
pH (diluted 1:10 with water)	7.0 min

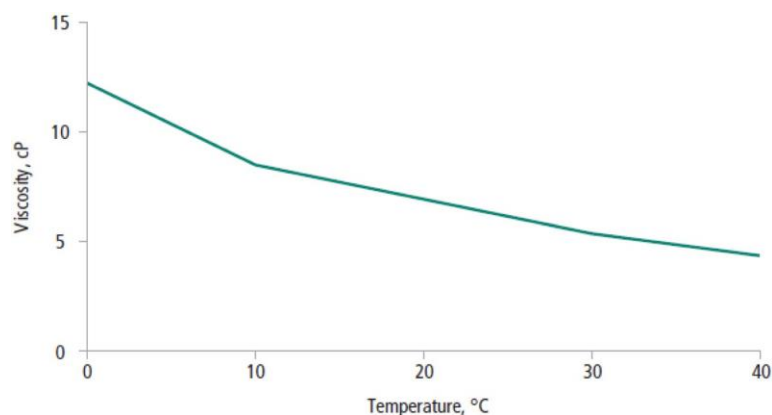
PHYSICAL PROPERTIES

Appearance	Clear liquid, light to water-white in color
Boiling point, °F (°C)	c. 261 (127)
Flash point	None
Odor	Slight
Specific gravity, 70°F (21.1°C)	≥1.7

Variation of the density of WELLBROM 14.2 with temperature



Variation of the viscosity of WELLBROM 14.2 with temperature



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, VitonR, TeflonR, natural rubber, chlorobutyl rubber, HypalonR, HalarR ethylene chlorotrifluoroethylene, TefzelR ethylene/tetrafluoroethylene copolymer and most high-performance polytetrafluoroethylene-based gasket materials such as W.L. Gore GORE-TEXR and UPG Style 800, and Garlock GylonR styles 3504 and 3500.

Titanium and high-nickel alloys such as InconelR 625 and 686, and HastelloyR 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 DerakaneR 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: 7789-41-5
EINECS: 232-164-6
MITI: 1-1038



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