

**Clear-Brine Fluid
Minimally damaging
completion brines.**

BRINEDRILL(PM)

Description: Heavy brine systems; the best alternative for Calcium Bromide to used in workover & completion operations.

INNOVACHEM Co.offers a comprehensive portfolio of clear-brine fluids(CBF) that are displaced in the well once the drilling phase has been completed. This completion fluid is designed to minimize formation damage and control reservoir formation pressures. Our clear-brine completion fluid is typically prepared with soluble salts for density,these fluids are blended to certain specifications to take into consideration densities and clarity. We offer a variety of brine blends that are formulated to meet project requirements. These fluids can be used for completion,workover or packer fluid applications.

Product Priorities vs Calcium Bromide:

- This additive specially formulated that completely acceptable environmentally issues (HSE Considerations)
- Cost Effective
- This additive does not need to Corrosion inhibitor & H2S Scavenger at the wellhead.
- These brine systems reduce potential formation damage and eliminated problems associated with precipitate formations.

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Row	Properties	Unit	Result	
1	Density@25 C°	PCF	≥ 105	
2	Crystallization Point	F°	≤ 20	
3	PH @25 C°	-	≥ 7	
4	Corrosion Rate: @180 F° for 72 Hrs. On OFITE L-80	MPY	≤ 5	
5	Turbidity	NTU	≤ 20	
6	Heavy Metals &Toxic Elements	Mg/Kg	As	10
			Cd	< 0.2
			Cu	< 0.03
			Pb	0.4
			Hg	< 0.4
			Cr	1
			Ni	4
			Br	0.05

Calcium Bromide

Solubility in Water:	Miscible
Appearance and Odor:	Colorless water – white liquid with no odor
Weight Per Gallon:	~14.2 lbs.
pH Value:	6 - 8
Crystallization Temperature:	-12.2°C (10°F)
Approx. CaBr2 %:	52% by weight

General Sales Specifications	(Representative)
Appearance	Clear fluid, free of foreign contamination
Density (60°F)	14.2 lb/gal min
(Analytical methods available upon request)	