



CLEAR SOLUTIONS

Performance Drilling Products
The Earth Can Trust

APPLICATION GUIDANCE

Pure-Bore® and Pure-Bore® HT in Calcium Chloride based brines

Advantages

- Allows simple mixing and maintenance of Calcium Chloride based drilling fluids
- Possesses inherent fluid loss and viscosity characteristics
- Slick filter-cake for decreased torque and drag

Notes on use

- Using Calcium Chloride brines at densities higher than 1.30 S.G could lead to gelation
- An excess of low gravity solids/ Barite will lead to elevated PV, YP and fluid loss volumes

Recommended Treatment

Temperatures below 200°F

Pure-Bore® (2-3ppb)

Pure-Bore® ULV (1-3ppb)

Temperatures between 200°F - 275°F

Pure-Bore® HT (6-7ppb)

Description

Calcium Chloride brines with densities of up to 1.30 S.G are compatible with Pure-Bore® and Pure-Bore® HT.

These formulations exhibit shear-thinning rheology, excellent fluid loss control, temperature stability up to 275°F and are effective at reducing shale swelling.

Example Formulations

Product	Amount					
	1.23 S.G CaCl ₂		1.30 S.G CaCl ₂		1.23 S.G CaCl ₂	
Brine	1.23 S.G CaCl ₂		1.30 S.G CaCl ₂		1.23 S.G CaCl ₂	
Pure-Bore® HT	7ppb		6ppb			
Pure-Bore®					3.5ppb	
Pure-Bore® ULV					1ppb	
MgO	3ppb					
HMP	10ppb					
HR Temperature	275°F				185°F	
BHR/AHR	BHR	AHR	BHR	AHR	BHR	AHR
600	68.3	64.8	55.4	68.5	46.3	65.0
300	48.0	47.4	38.6	48.9	33.3	46.5
200	39.4	40.0	31.2	40.6	27.5	38.2
100	28.3	30.2	22.0	29.9	20.3	27.9
6	7.6	8.5	6.3	8.9	6.3	9.0
3	6.1	6.6	5.0	6.8	4.8	7.4
PV	20.3	17.4	16.8	19.6	13.0	18.5
YP	27.7	30.0	21.8	29.3	20.3	28.0
Fluid Loss ml		3.6		3.2		4.0