PRESSURE PUMPING SERVICES TECH SPECS

SureBlock[™]-104L

Retarder for Water-Control Additive

Applications

 Delays the crosslinking time to enable accurate system placement to effectively seal off unwanted water or gas production

Features and Benefits

- · Accurately controls crosslinking times
- Easily mixed in water
- Readily available
- Environmentally friendly

Product Description

SureBlock-104L is a liquid retarder used to control the gelation/crosslinking time of both SureBlock-101 and SureBlock-102 water control additives. Crosslinking time can be accurately controlled from 10 minutes to more than 8 hours.

This product is added to complete liquid volume prior to adding SureBlock-101 or SureBlock-102. Concentration is based on bottomhole static temperature (BHST) and can range from 0 to 100 gal/Mgal (0 to 100 L/m³). Optimum dosage, temperature, and extent of mixing should be determined for a cost-effective operation.



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SureBlock[™]-104L

Specifications

Temperature	SureBlock-104L concentration	Time required to yield viscosity of 1200cP @40s-1 using (R1:B2)
100°F (37C°)	0.0 gal/Mgal or L/m ³	76 minutes
	4.0 gal/Mgal or L/m ³	200 minutes
	7.2 gal/Mgal or L/m ³	332 minutes
	14.3 gal/Mgal or L/m ³	>400 minutes
140°F (60°C)	0.0 gal/Mgal or L/m ³	15 minutes
	21.6 gal/Mgal or L/m ³	116 minutes
	28.8 gal/Mgal or L/m ³	202 minutes
	42.4 gal/Mgal or L/m ³	376 minutes
180°F (82°C)	0.0 gal/Mgal or L/m ³	5 minutes
	14.3 gal/Mgal or L/m ³	15 minutes
	42.4 gal/Mgal or L/m ³	56 minutes
	56.8 gal/Mgal or L/m ³	73 minutes
	72.0 gal/Mgal or L/m ³	212 minutes
220°F (104°C)	72.0 gal/Mgal or L/m ³	38 minutes
	86.0 gal/Mgal or L/m ³	136 minutes
	100.4 gal/Mgal or L/m ³	>150 minutes
250°F (121°C)	100.4 gal/Mgal or L/m ³	90 minutes

Physical Properties

Appearance	Clear liquid
Specific gravity	1.05 to 1.10
Density	8.83 to 9.19 lb/gal (1.05 to 1.10 kg/m³)
рН	4.45 to 4.55



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