



P-SR5

CEMENTING SERVICE BULLETIN

09/27/10

P-SR5 (PETROCHEM – SYNTHETIC RETARDER)

TECHNICAL DATA

P-SR5 is a synthetic non-lignosulfonate cement retarder which is the only retarder designed for use with thixotropic slurries.

APPLICATION

1. P-SR5 retarder is effective in fresh water slurries at bottom hole circulating temperatures (BHCTs) up to 350°F.
2. In saturated salt slurries, this retarder can be used at BHCTs between 250°F and 350°F (121°C & 177°C respectively). When combined with certain retarder enhancing agents (P-LTR, P-MTR & P-HTR), P-SR5 retarder can then be used in fresh water cement systems at BHCTs as high as 430°F (221°C).
3. When used with P-TTC, P-SR5 retarder helps the cement slurry retain its thixotropic properties. When thixotropy is not required, P-SR5 retarder can still be used with any fluid loss additive to help bridge temperature gaps.

FEATURES

P-SR5 retarder is available in powder or liquid form. Because the liquid form of this retarder is a true aqueous solution, it does not cause the settling problems associated with non-aqueous suspensions.

ADVANTAGES

- P-SR5 retarder and P-SR5L liquid retarder can provide the following benefits:
- P-SR5 retarder interacts well with other cement additives.
- When cured for 24 hours at BHCT, this retarder helps provide excellent compressive strength.
- P-SR5 retarder is effective in light weight cement slurries formulated with Silicate additives.

PROPERTIES

PRODUCT	FORM	SP. GR.	PACKING
P-SR5	WHITE POWDER	1.90	50 LB. /SKS.



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SAFETY

Chemical goggles are required while handling P-SR5. If the P-SR5 gets in the eyes, rinse with running water while holding the eye lids apart. If irritation persists, get medical attention. If the skin is contacted – wash thoroughly with water. For more information on safety refer to the MSDS sheet.

The Pilot testing gave the following results with Class H cement.

TEMPERATURE	%BWOC	T.T. (HRS:MIN)
150 °F	0.005	1:26
200 °F	0.01	1:52
	0.02	2:49
300 °F	0.125	1:48
	0.2	3:10
	0.3	6:10
320 °F	0.4	9:54
	0.3	3:49
	0.4	4:55
	0.5	5:16
	1.0	11:07