P-SR10

CEMENTING SERVICE BULLETIN

09/27/10

P-SR10 (PETROCHEM – SYNTHETIC RETARDER)

TECHNICAL DATA

P-SR10 is a synthetic non-lignosulfonate cement retarder which is the only retarder designed for use with thixotropic slurries.

APPLICATION

1. P-SR10 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-SR10 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-SR10 retarder helps the cement slurry retain it thixotropic properties. When thixotropy is not required, P-SR10 retarder can still be used with any fluid loss additive to help bridge temperature gaps.

FEATURES

P-SR10 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-SR10 retarder and P-SR10L liquid retarder can provide the following benefits:
- P-SR10 retarder interacts well with other cement additives.
- When cured for 24 hours at BHCT, this retarder helps provide excellent compressive strength.
- P-SR10 retarder is effective in light weight cement slurries formulated with Silicate additives.

PROPERTIES

PRODUCT	FORM	SP. GR.	PACKING
P-SR10	WHITE POWDER	2.35	50 LB. /SKS.

PETROCHEM USA, INC.
4111-D N.W. 132ND STREET, OPA-LOCKA, FLORIDA 33054 U.S.A.
TEL: 305-685-8282 FAX: 305-685-9339 E-MAIL: INFO@PETROCHEM.US WEB-SITE: WWW.PETROCHEM.US

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SAFETY

Chemical goggles are required while handling P-SR10. If the P-SR10 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:MINS)
150 ^{O}F	0.0025	1:26
200 ^{O}F	0.005	1:52
	0.01	2:49
300 ^{O}F	0.0062	1:48
	0.1	3:10
	0.15	6:10
	0.2	9:54
320 ^{O}F	0.15	3:49
	0.2	4:55
	0.25	5:16
	0.5	11:07

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