



PRODUCT DATA SHEET

FL-14

Cement Fluid Loss Additive

DESCRIPTION

ECONOMY'S FL-14 is a powdered fluid loss additive recommended for blending with cement to control the loss of filtrate from a cement slurry.

ADVANTAGES

FL-14 is a non-retarding synthetic copolymer designed to control the loss of fluid from the slurry in porous environments. It is ideally suited for squeeze cementing particularly in coil tubing due to its non-gellation properties. In primary cementing, it functions as a gas migration control additive because of its non-gellation characteristics. It provides exceptional filtrate control when used with retarders at bottom hole circulating temperatures up to 350°F (177°C).

APPLICATION

FL-14 may be used for fluid loss control in any API class of cement (A, C, G, or H). It may be used with other cement additives such as dispersants, silica flour, retarders, defoamers and weighting materials. FL-14 is not recommended for use in slurries with salt concentrations of 18% bww or greater.

PROPERTIES

Appearance Off-White Powder

Specific Gravity 1.41

Solubility in Water Solubility Limited by Resultant Viscosity

pH Neutral Packaged in 50 lb. bags

Water Requirements none

Loading Rate 0.3 to 1.0% bwc

See Fluid Loss and Gas Migration Data



P.O. Box 450246 Houston, TX 77245-0246 USA Toll free: (800) 231-2066 Phone: (713) 723-8416

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FL-14 FLUID LOSS TESTING

8% BENTONITE BWC 2% SODIUM METASILICATE BWC API 8,000 FT. CASING SCH. 5G 2% CALCIUM CHLORIDE BWC 2% CALCIUM CHLORIDE BWC API 8,000 FT. CASING SCH. 5G COMMENTS SEA WATER SEA WATER CLASS G CEMENT CLASS G CEMENT ΕW 2:53 2:04 ပ္ပ 8 4 4 22452 တ တ ထ 9 8 8 6 7 7 7 7 9 7 2 3 2 4 27 60 60 21 21 38 53 53 53 53 53 17 61 200 48 1112 69 60 60 88 88 90 121 165 98 91 20 21 88 104 300 224 135 161 125 98 77 155 70 149 91 46 84 123 135 124 122 141 210 275 330+ 220 300+ 212 175 175 137 209 236 254 272 272 272 151 151 144 144 230 0 12 15 و 9 1212 WATER, GAL./SK % BWC ADDITIVE FL-14 FL-14 FL-14 FL-14 FL-14 FL-14 FL-14 FL-14

ALL TESTING WAS PERFORMED WITH CLASS H CEMENT UNLESS OTHERWISE NOTED.



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FL-14 ZERO STATIC GEL STRENGTH & GAS MIGRATION CONTROL TESTING

		THICKENING	THICKENING ZERO STATIC	TRANSITION	NCA	NCA	NCA
SLURRY COMPOSITION	TEMP., °F		GEL STRENGTH,	TIME, 50 PSI,	50 PSI,	500 PSI,	24 HR.,
H CEMENT+ RETARDER	140	NINI.L	1	333	8:10	9:35	2591
H CEMENT+ RETARDER+ 0.6% FL-14	140	4:45	545	2	6:36	10:51	2786
H CEMENT+ RETARDER	200		47	14	7:46	8:27	3175
H CEMENT+ RETARDER+ 0.6% FL-14	200	4:20	433	65	10:26	11:18	2660
H CEMENT+ RETARDER	250		29	62	5:45	6:31	2090
H CEMENT+ RETARDER+ 1.4% FL-14	250	4:19	241	29	6:47	7:44	1439



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