PRODUCT DATA SHEET

SC-9

Cement Dispersant

DESCRIPTION
ECONOMY'S SC-9 is a cement dispersant that reduces the apparent viscosity and improves the rheological properties of a cement slurry.

ADVANTAGES
SC-9 lowers the viscosity of a slurry and reduces the frictional pressure during pumping. The thinning of the cement slurry aids in achieving turbulent flow and mud removal in the annulus of a well. A lower viscosity cementing system can be mixed at a higher density by reducing the mixing water while remaining pumpable.

APPLICATION
SC-9 is primarily a dispersant but by reducing the mixing water it improves fluid loss control. SC-8 is compatible with polyvinyl alcohol and salt cement slurries. It may be used for dispersing any API class of cement (A, C, G or H). It may be used with other cement additives such as fluid loss additives, silica flour, retarders, defoamers and weighting materials.

PROPERTIES

Appearance	Dark Red Powder
Specific Gravity	1.30
Bulk Density	38 lb/ft^3
Solubility in Water	Soluble
Packaged in	50 lb. bags
Water Requirements	none
Loading Rate	0.3 to 1.5% bwc

See Rheology Data

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SLURRIES:	Fresh Water	18% Salt	Saturated Salt
Class H Cement	700 grams	700 grams	700 grams
0.75% Dispersant	5.25 grams	5.25 grams	5.25 grams
NaCl	0.0 grams	47.9 grams	98.4 grams
4.3 gal. water/sk	266 grams	266 grams	266 grams

	Atm. Vis. (Bc)		Rheology (No. 1 Spring)						Atm. Vis. (Bc)		Rheology (No. 1 Spring)						Atm. Vis. (Bc)		Rheology (No. 1 Spring)					
Dispersant	I	f	600	300	200	100	6	3	i	f	600	300	200	100	6	3	i	f	600	300	200	100	6	3
	Fresh Water @ 80°F								**18% Salt @ 80°F**								**Saturated Salt @ 80°F**							
NC-S-1	1	3	62	24	14	6	5	1	3	4	82	40	27	15	3	3	6	10	144	87	70	49	35	32
SC-8	5	9	61	24	13	5	1	1	6	9	71	33	21	10	1	1	5	9	95	47	38	16	1	1
SC-9	4	6	72	33	20	10	1	1	5	6	84	41	27	14	3	1	6	7	99	52	35	18	2	2
	Fresh Water @ 140°F								**18% Salt @ 140°F**								**Saturated Salt @ 140°F**							
NC-S-1	4	7	44	18	10	4	1	1	1	5	70	37	27	18	10	11	1	4	79	44	34	22	13	13
SC-8	5	10	46	18	11	4	1	1	5	6	55	26	17	9	2	2	5	9	63	29	20	11	2	2
SC-9	3	4	53	23	13	6	1	1	6	6	59	29	19	11	1	1	6	7	70	35	23	12	2	2
	Fresh Water @ 180°F								**18% Salt @ 180°F**								**Saturated Salt @ 180°F**							
NC-S-1	2	5	41	15	9	3	1	1	4	12	GELLED						4	4	61	33	24	15	8	8
SC-8	5	9	41	15	9	4	1	1	5	9	50	25	18	11	5	5	6	7	52	25	17	9	3	3
SC-9	3	4	49	19	12	6	1	1	5	5	49	22	15	9	2	2	5	5	56	27	18	11	3	3

FRESH WATER THICKENING TIME API Sch. 5G @ 125°F, H:MM

NC-S-1	6:45
SC-8	4:30
SC-9	7:01

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