



PRODUCT DATA SHEET

NC-S-1

Oilfield Chemicals Cement Dispersant

DESCRIPTION

ECONOMY'S NC-S-1 is a cement dispersant that reduces the apparent viscosity and improves the rheological properties of a cement slurry.

ADVANTAGES

NC-S-1 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

NC-S-1 is primarily a dispersant but by reducing the mixing water it improves fluid loss control. 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. NC-S-1 is not recommended for use in slurries with salt concentrations of 18% bww or greater.

PROPERTIES

Appearance	Brown Powder
Specific Gravity	1.30
Bulk Density	43 lb/ft ³
Solubility in Water	Soluble
Packaged in	50 lb. bags
Water Requirements	none
Loading Rate	0.5 to 1.5% bwc
See Rheology Data	



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Saturated Salt
700 grams
5.25 grams
98.4 grams
266 grams

18% Salt
700 grams
5.25 grams
47.9 grams
266 grams

Fresh Water
700 grams
5.25 grams
0.0 grams
266 grams

SLURRIES:
Class H Cement
0.75% Dispersant
NaCl
4.3 gal water/sk

Dispersant	Atm. Vis. (Bc)			Rheology (No. 1 Spring)			Atm. Vis. (Bc)			Rheology (No. 1 Spring)															
	1	5	9	600	300	100	6	3	1	f	600	300	100	6	3										
NC-S-1	1	3	62	24	14	6	5	1	3	4	82	40	27	15	3	3	3	6	10	144	87	70	49	35	32
	5	9	61	24	13	5	1	1	6	9	71	33	21	10	1	1	1	5	9	95	47	38	16	1	1
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	13
	5	10	46	18	11	4	1	1	5	6	55	26	17	9	2	2	5	9	63	29	20	11	2	2	2
NC-S-1	2	5	41	15	9	3	1	1	4	12							4	4	61	33	24	15	8	8	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	3

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

NC-S-1 6:45
SC-8 4:30