

- DESCRIPTION** FRITZ SC-8 is a cement dispersant that reduces the apparent viscosity and improves the rheological properties of cement a slurry.
- ADVANTAGES**
- SC-8 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-8 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**
- White Powder
 - Specific Gravity – 1.486
 - Bulk Density – 42 lb./cu.ft.
 - Very water soluble
 - Packaged in 50 lb. bags
 - Water Requirements – none
 - Loading Rate – 0.30 to 1.5% bwc
 - See Rheology Data (also see NC-S-1 & SC-9 Data)

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SC-8 COMPATIBILITY WITH POLYVINYL ALCOHOL FLUID LOSS ADDITIVE

CLASS H CEMENT + DEFOAMER 7011
4.3 GAL. WATER/SK, 16.4 LB./GAL., 1.06 CU.FT./SK

PVA, % BWC	DISPERSANT	DISPERSANT, % BWC	ATM. VIS. Bc		RHEOLOGY (rpm)						FLUID LOSS, CC
			i	f	600	300	200	100	6	3	
80°F											
1.0	NONE	NONE	19	19	300+	300+	300+	268	67	55	405
0.5	NONE	NONE	16	20	300+	249	187	127	43	26	802
0.5	NC-S-1	0.50	GELLED								
0.5	SC-8	0.50	5	6	160	82	55	28	2	1	52
0.5	SC-8	0.60	5	6	162	82	54	27	2	1	20
0.5	SC-8	0.75	5	6	160	79	53	26	2	1	10
0.5	SC-8	1.00	5	7	161	78	51	21	2	1	10
125°F											
0.5	SC-8	0.50	5	6	97	47	31	15	1	1	196
0.5	SC-8	0.60	5	5	96	46	29	14	1	1	22
0.5	SC-8	1.00	5	6	94	44	28	14	1	1	12
180°F											
0.5	SC-8	0.75	5	5	68	30	20	10	1	1	81
0.5	SC-8	1.00	5	5	62	27	18	8	1	1	20

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

NC-S-1 @ 0.75% bwc 6:45

SC-8 @ 0.75% bwc 4:30

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COMPARATIVE RHEOLOGY DATA FOR FRITZ CEMENT DISPERSANTS

SLURRIES:

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

Fresh Water

700 grams
5.25 grams
0.0 grams
266 grams

18% Salt

700 grams
5.25 grams
47.9 grams
266 grams

Saturated Salt

700 grams
5.25 grams
98.4 grams
266 grams

Dispersant	Atm. Vis. (Bc)		Rheology (No. 1 Spring)						Atm. Vis. (Bc)		Rheology (No. 1 Spring)						Atm. Vis. (Bc)		Rheology (No. 1 Spring)					
	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
	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
	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

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

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

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