

- DESCRIPTION** FRITZ SC-8L is a liquid cement dispersant that reduces the apparent viscosity and improves the rheological properties of a cement slurry.
- ADVANTAGES**
- SC-8L 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-8L is primarily a dispersant but by reducing the mixing water it improves fluid loss control.
  - SC-8L is compatible with polyvinyl alcohol and salt cement slurries.
  - SC-8L 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**
- Clear Liquid (33% solution)
  - Specific Gravity – 1.17
  - Bulk Density – 9.75 lb./gal.
  - Absolute Volume – 0.1026 gal./lb.
  - Packaged in 5 gallon pails and 55 gallon drums
  - Water Requirements – none
  - Loading Rate – 0.9 to 0.44 gal./sk (0.33 to 1.66 L/sk)
  - See Rheology Data for SC-8 (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	
<b>80°F</b>											
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	<b>GELLED</b>								
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
<b>125°F</b>											
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
<b>180°F</b>											
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		
	<b>Fresh Water @ 80°F</b>						<b>18% Salt @ 80°F</b>						<b>Saturated Salt @ 80°F</b>													
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		
	<b>Fresh Water @ 140°F</b>						<b>18% Salt @ 140°F</b>						<b>Saturated Salt @ 140°F</b>													
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		
	<b>Fresh Water @ 180°F</b>						<b>18% Salt @ 180°F</b>						<b>Saturated Salt @ 180°F</b>													
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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**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.		Rheology						Atm. Vis.		Rheology						Atm. Vis.		Rheology						
	i	f	600	300	200	100	6	3	i	f	600	300	200	100	6	3	i	f	600	300	200	100	6	3	
	<b>Fresh Water @ 80°F</b>						<b>18% Salt @ 80°F</b>						<b>Saturated Salt @ 80°F</b>												
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	
	<b>Fresh Water @ 140°F</b>						<b>18% Salt @ 140°F</b>						<b>Saturated Salt @ 140°F</b>												
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	
	<b>Fresh Water @ 180°F</b>						<b>18% Salt @ 180°F</b>						<b>Saturated Salt @ 180°F</b>												
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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