



DS 20L

DS 20L LIQUID RHEOLOGICAL PROFILE MODIFIER

TYPICAL RANGE OF USE

- TEMPERATURE: BHCT > 60°F (16°C)
- CONCENTRATION: 0.03 – 0.33 US GALLONS / 94 LB. SACK
- DENSITY: 12 - 20 LB.'S / US GALLON (1.44 – 2.4 g/cm³)

PHYSICAL PROPERTIES

- 40 wt. % ACTIVE SOLUTION OF DIACEL RPM
- 0.022 US GALLON / 94 LB. SACK = 0.1% BWOC
- LIGHT TAN LIQUID
- SPECIFIC GRAVITY = 1.23 g / cm³

APPLICATION AREA'S

- ALL API CLASSES OF CEMENT
- FRESH WATER, SALT WATER, OR SEA WATER SLURRIES

PURPOSE

DS 20L Liquid is a liquid cement dispersant that is typically added to the mixing water prior to preparation of the cement slurry. **DS 20L** Liquid is used for the purpose of modifying the rheology of a cement slurry. **DS 20L** Liquid may be used to promote turbulent flow at a reduced flow rate as compared to neat cement slurries. **DS 20L** Liquid allows the mixing of densified slurries and reduces the concentration of weighting agents required for weighted slurries. Diacel RPM Liquid is particularly beneficial when used with fluid loss control polymers. The addition of **DS 20L** Liquid will typically reduce the concentration of fluid loss agent required to obtain a particular fluid loss control value, resulting in improved economy.

EFFECTS OF DS 20L LIQUID ON RHEOLOGY									
Typical API Class H + Fresh Water @ 16.4 lb.'s / US gal. (1.97 g/cm ³)									
DS 20L Gal./sack	Test Temp. °F (°C)	Fann 35 Dial Degrees, R1B1, SF = 1X							
		600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm	PV cP	YP Lbf/100ft ₂
0	80 (17)	240	166	136	113	35	26	79.5	86.5
0	150 (66)	227	191	162	122	38	30	103.5	87.5
0.06	80 (17)	82	37	24	13	3	3	36	1
0.06	150 (66)	67	29	19	12	6	5	25.5	3.5
0.12	80 (17)	74	27	20	10	2	2	25.5	1.5
0.12	150 (66)	53	21	13	9	2	1	18	0
0.17	80 (17)	72	26	17	8	1	1	27	0
0.17	150 (66)	47	19	11	7	1	1	18	0
0.23	80 (17)	59	22	16	8	1	1	21	0
0.23	150 (66)	40	17	10	5	1	1	18	0

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