



DS 20

DS 020 POWDER RHEOLOGICAL PROFILE MODIFIER

TYPICAL RANGE OF USE

- TEMPERATURE: BHCT > 60°F (16°C)
- CONCENTRATION: 0.25% – 1.5 % BWOC
- DENSITY: 12 to 20 lb.'s / US gallon (1.44 – 2.4 g/cm³)

PHYSICAL PROPERTIES

- LIGHT TAN POWDER
- SPECIFIC GRAVITY = 1.36 g / cm³
- COMPLETE WATER SOLUBILITY

APPLICATION AREA'S

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

PURPOSE

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

EFFECTS OF DS 20 ON RHEOLOGY									
Typical API Class H + Fresh Water @ 16.4 lb.'s / US gal. (1.97 g/cm ³)									
DS 20 % BWOC	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
0.25	80 (17)	84	39	26	14	3	3	38.25	0.75
0.25	150 (66)	69	31	22	13	6	6	25.5	5
0.50	80 (17)	78	30	23	11	2	2	27.75	1.75
0.50	150 (66)	55	22	15	8	2	2	21.75	0.25
0.75	80 (17)	76	29	20	10	2	1	28.5	0.5
0.75	150 (66)	50	21	13	7	2	2	21	0
1.00	80 (17)	62	26	18	9	1	1	25.5	0.5
1.00	150 (66)	41	18	12	5	2	1	19.5	0

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