



RT 40

RT 40 POWDER HIGH TEMPERATURE RETARDER

TYPICAL RANGE OF USE

- TEMPERATURE: 175 °F - 375°F (80°C – 190.6°C) BHCT
- CONCENTRATION: 0.1 % - 2.0 % BWOC
- DENSITY: 12 to 20 lb.'s / US gallon (1.44 – 2.4 g/cm³)

PHYSICAL PROPERTIES

- DARK BROWN POWDER
- SPECIFIC GRAVITY = 1.2 g / cm³
- COMPLETE WATER SOLUBILITY

APPLICATION AREA'S

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

PURPOSE

RT 40 is an upper mid-range to high temperature cement retarder that is typically dry blended with the cement prior to preparation of the cement slurry. **RT 40** extends the thickening time of the cement slurry for the purpose of providing sufficient time for placement.

RT 40 has a mild dispersing effect on the cement slurry that is beneficial by reducing the concentration of dispersant required and inhibiting premature slurry gelation. **RT 40** improves the performance of most fluid loss agents and is particularly beneficial when used with synthetic polymer additives.

EFFECTS OF RT 40 ON THICKENING TIME								
Typical API Class H + Fresh Water @ 16.4 lb.'s per US Gallon								
Depth FT.	BHCT °F (°C)	API Thickening Time (Hour : Minutes)						
		0.15% BWOC	0.25% BWOC	0.35% BWOC	0.5% BWOC	0.75% BWOC	1.0% BWOC	2.0% BWOC
12000	175 (79)	3:15	5:28	6:05	--	--	--	--
12000	200 (93)	2:28	4:53	5:32	--	--	--	--
12000	225 (107)	0:55	1:34	3:59	+8:00	+8:00	+9:00	--
14000	250 (121)	--	--	1:45	6:27	7:35	8:28	--
14000	275 (135)	--	--	--	3:27	4:35	5:25	+8:00
16000	300 (149)	--	--	--	0:58	1:40	3:13	7:55
16000	325 (163)	--	--	--	--	--	1:15	7:01
18000	350 (177)	--	--	--	--	--	--	6:26
18000	375 (190)	--	--	--	--	--	--	4:20

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