



FL 05L

Liquid Fluid loss additive

LIQUID NON-RETARDING FLUID LOSS AGENT

TYPICAL RANGE OF USE

- TEMPERATURE: 70°F – 450°F (21°C - 232°C) BHCT
- CONCENTRATION: 0.22 – 2.5 US GALLONS / 94 LB SACK
- DENSITY: 12 to 20 lb.'s / US gallon (1.44 – 2.4 g/cm³)

PHYSICAL PROPERTIES

- FREEZE CONDITIONED AQUEOUS LIQUID POLYMER
- SPECIFIC GRAVITY = 1.11 g / cm³
- COMPLETE WATER SOLUBILITY

APPLICATION AREA'S

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

PURPOSE

FL 05L is an aqueous based liquid polymer that is blended into the mix water prior to preparation of the cement slurry. **FL 05L** is a non-retarding fluid loss agent. The non-retarding property of **FL 05L** reduces the need for accelerators at low temperatures and in low density cement slurries. The fluid loss control performance of **FL 05L** is improved when used in conjunction with DownHole Solution's, Inc dispersants and retarders. Typically, a retarder is required above 100°F.

EFFECTS OF FL 05L ON FLUID LOSS CONTROL							
Lafarge Class H + Fresh Water @ 16.2 lb.'s / gallon							
FL 05L (Fluid loss additive) Gal./sk	DS 20L (Dispersant) Gal./sk	API Fluid Loss in cc's per 30 minutes					
		80°F (26.7°C)	100°F (37.8°C)	125°F (51.7°C)	150°F (65.6°C)	175°F (79.4°C)	200°F (93.3°C)
0.35	0	163	175	191	214	232	--
0.35	0.03	58	64	72	86	105	--
0.35	0.06	30	42	54	60	78	98
0.25	0.06	48	55	68	78	125	152

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FL 05L LIQUID NON-RETARDING FLUID LOSS AGENT

EFFECTS OF FL 05L ON FLUID LOSS CONTROL Lehigh Class H + Fresh Water @ 16.4 lb.'s / gallon							
FL 05L (Fluid loss additive) Gal/sk	DS 20L (Dispersant) Gal/sk	Temp. °F	PV cP	YP Lb _f /100 ft ²	WL cc/30 min.	FW %	TT Hr:Min.
0.3	0.02	80	99	13	--	0	--
		100	115	27	150	0	--
0.4	0.02	80	115	12	--	0	--
		100	144	29	120	0	--
0.5	0.02	80	130	17	--	0	--
		100	174	36	84	0	4:47
0.6	0.02	80	157	22	--	0	--
		100	197	44	54	0	--
0.4	0.04	80	112	12	--	0	--
		150	108	31	120	0	--
0.5	0.04	80	129	14	--	0	--
		150	155	38	76	0	6:21
0.6	0.04	80	149	18	--	0	--
		150	158	43	58	0	--
0.4	0.06	80	110	9	--	0	--
		190	93	34	122	0	--
0.5	0.06	80	120	12	--	0	--
		190	112	40	82	0	6:31
0.6	0.06	80	130	15	--	0	--
		190	123	38	59	0	--

Nomenclature:

PV – Plastic Viscosity

YP – Yield Point

WL – API Fluid Loss

FW – API Free Water

TT – API Thickening Time

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0.3	0.02	80	99	13	--	0	--
		100	115	27	150	0	--
0.4	0.02	80	115	12	--	0	--
		100	144	29	120	0	--
0.5	0.02	80	130	17	--	0	--
		100	174	36	84	0	4:47
0.6	0.02	80	157	22	--	0	--
		100	197	44	54	0	--
0.4	0.04	80	112	12	--	0	--
		150	108	31	120	0	--
0.5	0.04	80	129	14	--	0	--
		150	155	38	76	0	6:21
0.6	0.04	80	149	18	--	0	--
		150	158	43	58	0	--
0.4	0.06	80	110	9	--	0	--
		190	93	34	122	0	--
0.5	0.06	80	120	12	--	0	--
		190	112	40	82	0	6:31
0.6	0.06	80	130	15	--	0	--
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