

SUREFLOW 17E LC

SUREFLOW 17E LC IS A "SELF-FLOW" LOW CEMENT CASTABLE DESIGNED FOR INSTALLATION BY POURING. WHEN MIXED TO SMOOTH FOLD CONSISTANCY, SUREFLOW 17E LC WILL SELF-FLOW INTO FORMWORK AND DEGAS WITHOUT THE NEED FOR VIBRATION, RODDING OR TAMPING. THIS HIGHLY EROSION RESISTANT MATERIAL IS IDEAL FOR U-BENDS, Y-SECTIONS AND OVERHEAD LINES AND OTHER CATALYST TRANSFER LINES, WHEN EASE OF INSTALLATION WITHOUT VIBRATION COMBINED WITH SUPERB PHYSICAL PROPERTIES IS REQUIRED. THE DATA SHOWN IS BASED ON MATERIAL PREPARED TO A SMOOTH FOLD CONSISTANCY AND ALLOWED TO SELF-FLOW INTO FORMWORK WITHOUT VIBRATION OR TAMPING.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) 1510°C

WATER ADDITION REQUIRED TO "SELF FLOW" 8.0 - 8.5 % BY WT

<u>BULK DENSITY</u>					<u>TYPICAL</u>
					<u>(METRIC)</u>
@ 110°C	135 - 141	LBS/FT ³	2162 - 2259	KG/M ³	(2230)
@ 815°C	134 - 140	LBS/FT ³	2146 - 2242	KG/M ³	(2215)

COLD CRUSHING STRENGTH

@ 110°C	8000 - 12000	P.S.I.	552 - 827	KG/CM ²	(620)
@ 815°C	8000 - 14000	P.S.I.	552 - 965	KG/CM ²	(700)
@ 1400°C	12000 - 18000	P.S.I.	827 - 1241	KG/CM ²	(950)

COLD MODULUS OF RUPTURE

@ 540°C	1400 - 2000	P.S.I.	97 - 138	KG/CM ²	(118)
@ 815°C	1400 - 2000	P.S.I.	97 - 138	KG/CM ²	(118)

PERMANENT LINEAR CHANGE

@ 815°C	0.00 TO - 0.30 %	(- 0.10)
@ 1095°C	0.00 TO - 0.30 %	(- 0.25)

EROSION LOSS (ASTM C-704) LESS THAN 10 CC (5.5 CC)

TYPICAL CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/Hr/°F/in</u>	<u>W/mK</u>
@ 540°C	6.3	0.95
@ 815°C	6.9	0.97
@ 1095°C	7.7	1.08

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	AlK
55.9	38.5	0.8	2.4	1.0	0.9	0.5

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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