

SUREFLOW 34ZLC

SUREFLOW 34ZLC IS A 1500°C LOW CEMENT CASTABLE WHICH REQUIRES NO VIBRATION TO INSTALL. SUPER HIGH STRENGTHS, ABRASION RESISTANCE AND VOLUME STABILITY ARE ACHIEVED EVEN WHEN THE MATERIAL IS MIXED TO A "FREE-FLOWING" OR "SELF-LEVELLING" CONSISTANCY. SUREFLOW 34ZLC IS IDEALLY SUITED FOR PUMP CASTING APPLICATIONS.

THE DATA SHOWN IS BASED ON MATERIAL PREPARED TO A FREE FLOWING CONSISTANCY AND POURED INTO FORMWORK WITHOUT VIBRATION OR TAMPING.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) 1500°C

WATER ADDITION REQUIRED TO "FREE FLOW" 4.4 - 5.2% BY WT

<u>BULK DENSITY</u>				<u>TYPICAL (METRIC)</u>	
@ 110°C	174 - 179	LBS/FT ³	2785 - 2860	KG/M ³	(2820)
@ 815°C	173 - 178	LBS/FT ³	2765 - 2845	KG/M ³	(2800)

<u>COLD CRUSHING STRENGTH</u>					
@ 110°C	11000 - 16000	P.S.I.	760 - 1100	KG/CM ²	(900)
@ 815°C	13000 - 18000	P.S.I.	900 - 1250	KG/CM ²	(1100)
@ M.S.T.	24000 - 30000	P.S.I.	1650 - 2070	KG/CM ²	(1860)

PERMANENT LINEAR CHANGE

@ 815°C - 0.10 TO + 0.20 % (+ 0.05)

MAXIMUM GRAIN SIZE 3.5 MM

EROSION LOSS (ASTM C-704)

@ 815°C 7 CC MAX TYPICAL (5 CC)

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/Hr/°F/in</u>	<u>W/mK</u>
@ 540°C	11.0	1.57
@ 1095°C	10.0	1.43

TYPICAL CHEMICAL ANALYSIS (%)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	ZrO ₂	TiO ₂	AlK
34.0	41.4	0.5	1.6	21.5	0.8	0.2

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