

SUREFLOW 70LCA

SUREFLOW 70LCA IS A 70% alumina, low cement, self-flow castable with physical properties comparable to traditional vibrocast low-cement products having similar chemical composition. Suitable for application in many molten metal applications. Non wetting to Aluminium alloys up to 850°C.

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.) 1760°C (Non Aluminium Contact)
850°C (Aluminium Contact)

WATER ADDITION REQUIRED TO "FREE FLOW" 6.0 - 6.5% BY WT

<u>BULK DENSITY</u>					<u>TYPICAL</u>
					<u>(METRIC)</u>
@ 110°C	172 - 167	LBS/FT ³	2755 - 2675	KG/M ³	(2715)
@ 815°C	169 - 164	LBS/FT ³	2707 - 2627	KG/M ³	(2667)

<u>COLD CRUSHING STRENGTH</u>					
@ 110°C	11600 - 14500	P.S.I.	800 - 1000	KG/CM ²	(900)
@ 815°C	13000 - 19000	P.S.I.	900 - 1300	KG/CM ²	(1200)
@ 1600°C	13000 - 19000	P.S.I.	900 - 1300	KG/CM ²	(1200)

<u>PERMANENT LINEAR CHANGE</u>		
@ 815°C	0.00 TO - 0.20 %	(- 0.10)

MAXIMUM GRAIN SIZE 5.0 MM

EROSION LOSS (ASTM C-704)

@ 815°C **6 CC MAX** **TYPICAL (4.5 CC)**

<u>CONDUCTIVITY OR "K" FACTOR</u>		
<u>MEAN TEMP</u>	<u>BTU/FT²/Hr/°F/in</u>	<u>W/mK</u>
@ 540°C	11.0	1.59
@ 1095°C	10.0	1.44

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	ALK
70.1	25.4	0.8	1.4	Tr	1.9	0.4

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. RESCO PRODUCTS disclaims any expressed or implied warranties based on this sheet. 01/08/13 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet