

VIBROCAST 85 SC

VIBROCAST 85 SC IS A SILICON CARBIDE BASED LOW CEMENT CASTABLE SPECIFICALLY DESIGNED FOR INSTALLATION BY VIBROCASTING. ITS HIGH THERMAL CONDUCTIVITY MAKES IT IDEAL FOR APPLICATIONS WHERE HIGH HEAT TRANSFER IS IMPORTANT. VIBROCAST 85 SC SHOWS EXCELLENT RESISTANCE TO ABRASION, THERMAL SPALLING AND CORROSION, COMBINED WITH HIGH FIRED STRENGTHS.

THE DATA SHOWN IS BASED ON MATERIAL PREPARED TO A GBIH CONSISTANCY AND VIBROCAST INTO FORMWORK.

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

BULK DENSITY

@ 110 °C	162 - 168	LBS/FT ³	2595 - 2691	KG/M ³
@ 815 °C	160 - 166	LBS/FT ³	2562 - 2658	KG/M ³

COLD CRUSHING STRENGTH

@ 815 °C	8000 - 14000	P.S.I.	560 - 965	KG/CM ²
@ M.S.T.	8000 - 14000	P.S.I.	560 - 965	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815 °C - 0.00 TO - 0.30 %

MAXIMUM GRAIN SIZE 3.5 MM

EROSION LOSS (ASTM C-704)

@ 815 °C 12 CC MAX

CONDUCTIVITY OR "K" FACTOR (Hot Wire Method)

<u>MEAN TEMP</u>	<u>BTU/FT²/Hr/°F/in</u>	<u>W/mK</u>
@ 540 °C	72.8	10.5
@ 1095 °C	77.7	11.2

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	SiC	TiO ₂	AlK
9.2	4.9	0.1	1.1	84.5	---	0.2

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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