

Rescocast 70SCG

RESCOCAST 70SCG IS A GENERAL DUTY GUN GRADE CASTABLE CONTAINING 70% SIC. ITS GOOD ABRASION RESISTANCE AND HIGH HEAT TRANSFER VALUE MAKE THIS PRODUCT AN EXCELLENT CHOICE FOR THE TUBE WALLS IN THE COMBUSTION ZONES OF POWER GENERATING UNITS. THE HIGH HEAT TRANSFER CHARACTERISTIC OF THE SIC REDUCES SURFACE SLAGGING AND ALKALI BUILD-UP, THEREBY, IMPROVING THE OPERATING EFFICIENCY OF YOUR UNIT. DATA SHOWN ARE AVERAGE RESULTS OF TESTS FOLLOWING THE GUIDELINES SET FORTH IN ASTM C-903-70 "PREPARING REFRACTORY CONCRETE SPECIMENS BY COLD GUNNING".

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

BULK DENSITY

@ 110°C	142 - 148	LBS/FT ³	2275 - 2375	KG/M ³
@ 815°C	137 - 143	LBS/FT ³	2195 - 2290	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	4000 - 8000	P.S.I.	275 - 552	KG/CM ²
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PERMANENT LINEAR CHANGE

@ 927°C	0.00 TO - 0.30 %
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EROSION LOSS (ASTM C-704) @ 815°C Less Than 20 CC

CONDUCTIVITY OR "K" FACTOR

	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
1000°F (540°C)	34.7	5.0
1500°F (815°C)	41.7	6.0

TYPICAL CHEMICAL ANALYSIS (%)

<u>SiC</u>	<u>Al₂O₃</u>	<u>SiO₂</u>	<u>Fe₂O₃</u>	<u>CaO</u>	<u>TiO₂</u>	<u>OTHER</u>
69.1	13.2	6.8	0.7	6.9	0.2	0.1

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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