

## VIBROCAST 40SC

VIBROCAST 40SC IS A 1500°C ABRASION RESISTANT LOW CEMENT CASTABLE CONTAINING 40% SILICON CARBIDE. IT IS FORMULATED TO GIVE MINIMUM POROSITY WITH MAXIMUM DENSITY AND SUPER HIGH FIRED STRENGTHS AND ABRASION RESISTANCE. THIS PRODUCT IS EASY TO INSTALL BY NORMAL VIBRATION TECHNIQUES.

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

**BULK DENSITY**

@ 110°C	150 - 156	LBS/FT <sup>3</sup>	2400 - 2500	KG/M <sup>3</sup>
@ 815°C	148 - 154	LBS/FT <sup>3</sup>	2370 - 2470	KG/M <sup>3</sup>

**COLD CRUSHING STRENGTH**

@ 815°C	10000 - 16000	P.S.I.	690 - 1100	KG/CM <sup>2</sup>
@ M.S.T.	8000 - 14000	P.S.I.	552 - 965	KG/CM <sup>2</sup>

**COLD MODULUS OF RUPTURE**

@ 815°C	2000 - 3000	P.S.I.	138 - 207	KG/CM <sup>2</sup>
@ M.S.T.	1800 - 2800	P.S.I.	124 - 193	KG/CM <sup>2</sup>

**PERMANENT LINEAR CHANGE**

@ 815°C	0.00 TO - 0.30 %
@ M.S.T.	+ 1.00 TO + 1.50 %

<b>EROSION LOSS (ASTM C-704)</b>	<b>LESS THAN 8.0 CC</b>
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Conductivity or "K" Factor:

Mean Temp.	BTU/ft <sup>2</sup> /HR/°F/in	W/mK
1000°F (540°C)	30	4.32
1500°F (815°C)	31	4.46

**TYPICAL CHEMICAL ANALYSIS (%)**

<b>AL<sub>2</sub>O<sub>3</sub></b>	<b>SiO<sub>2</sub></b>	<b>Fe<sub>2</sub>O<sub>3</sub></b>	<b>CaO</b>	<b>TiO<sub>2</sub></b>	<b>SiC</b>	<b>ALK</b>
<b>30.8</b>	<b>26.7</b>	<b>0.5</b>	<b>1.6</b>	<b>0.3</b>	<b>39.8</b>	<b>0.4</b>

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