

Low Cement Vibratables

Provisional Product Data

KilnCast 50

KilnCast 50 is a Cordierite Based Low Cement Castable designed for installation by Vibration Casting. KilnCast 50 has excellent strength, thermal Shock and abrasion resistance. The following is typical Vibration Cast Data:

<u>Maximum Service Temperature:</u>	1500°C
<u>Bulk Density:</u>	
After 110°C	2160 - 2240 kg/m ³
After 815°C	2130 – 2210 kg/m ³
<u>Cold Crushing Strength:</u>	
After 815°C	800 - 1300 kg/cm ²
<u>Modulus of Rupture:</u>	
After 815°C	100 - 150 kg/cm ²
<u>Erosion Loss:</u>	
After 815°C	Less than 7cc
<u>Permanent Linear Change(%):</u>	
Green to 110°C	0.0 to -0.1
110°C to 815°C	-0.1 to -0.3

Conductivity or “K” Factor:

Mean Temp.	BTU/ft ² /HR/°F/in	W/mK
1000°F (540°C)	7.6	1.09
1500°F (815°C)	8.2	1.18
2000°F (1095°C)	8.6	1.23

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO/MgO	Alkalies
48.4	43.6	1.25	0.6	4.8	0.9

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