

Vibratables

Product Data

R-MAX C

R-MAX C is a 1760°C high performance castable designed to provide maximum abrasion resistance and excellent strengths throughout all operating temperatures. The chemical nature and low porosity of the product results in excellent resistance to alkali, sulfuric and hydrochloric acid attack. **R-MAX C** can be installed via pumpcast, vibecast, and wet shotcrete techniques. To follow is the VIBRATION cast data:

Maximum Service Temperature: 3200°F (1760°C)

Bulk Density:

220°F (105°C)	173 lb/ft ³ (2768 kg/m ³)
1500°F (815°C)	170 lb/ft ³ (2720 kg/m ³)

Cold Crushing Strength:

1500°F (815°C)	20000-25000 psi (1400-1750 kg/cm ²)
2500°F (1370°C)	18000-23000 psi (1260-1610 kg/cm ²)

Modulus of Rupture:

1500°F (815°C)	2500-3300 psi (175-231 kg/cm ²)
2500°F (1370°C)	2000-3000 psi (140-210 kg/cm ²)

Permanent Linear Change(%):

1500°F (815°C)	-0.1 to -0.3
2500°F (1370°C)	0.0 to -0.3

Erosion Loss:

1500°F (815°C) Less than 4 cc
(Typical Loss: 2.2 cc)

Conductivity or "K" Factor:

Mean Temp.	BTU/ft ² /HR/°F/in	W/mK
1000°F (540°C)	16.0	2.31
1500°F (815°C)	16.2	2.34
2000°F (1095°C)	16.5	2.38

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Alkalies
71.2	24.1	1.3	1.5	1.7	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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PUMP CAST DATA

<u>Maximum Service Temperature:</u>	3200°F (1760°C)
<u>Bulk Density:</u>	
220°F (105°C)	170 lb/ft ³ (2720 kg/m ³)
1500°F (815°C)	167 lb/ft ³ (2672 kg/m ³)
<u>Porosity:</u>	
1500°F (815°C)	16.0%
<u>Cold Crushing Strength:</u>	
1500°F (815°C)	12000-15000 psi (840-1050 kg/cm ²)
2500°F (1370°C)	12000-15000 psi (840-1050 kg/cm ²)
2910°F (1600°C)	9000-12000 psi (630-840 kg/cm ²)
<u>Modulus of Rupture:</u>	
1500°F (815°C)	2500-3300 psi (175-231 kg/cm ²)
2500°F (1370°C)	1500-2500 psi (105-175kg/cm ²)
<u>Permanent Linear Change(%):</u>	
1500°F (815°C)	-0.1 to -0.3
2500°F (1370°C)	0.0 to -0.3
<u>Erosion Loss:</u>	
1500°F (815°C)	Less than 5 cc (Typical Loss: <4 cc)