



Vibratables

Product Data

Furna³ R-MAX (formerly R-MAX CA)

Furna³ R-MAX is a 70% alumina high performance castable designed to provide excellent non-wetting characteristics in aluminum contact applications along with maximum abrasion resistance and excellent strengths. This material will give superior performance for the belly band area and below the melt line in secondary melting furnaces. Furna³ R-MAX can be installed via pumpcast, vibecast, and wet shotcrete techniques.

Maximum Service Temperature: 2730°F (1499°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)

Porosity:

1500°F (815°C)	13.0%
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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: <3 cc)
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Conductivity or "K" Factor:

Mean Temp.	BTU/ft ² /HR/°F/in	W/mK
1000°F (540°C)	11.0	1.59
1500°F (815°C)	10.0	1.44
2000°F (1095°C)	10.0	1.44

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Alkalies
71.9	23.2	0.8	1.9	1.8	0.4

Standard Packaging: 72-55 lb. bags per pallet



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PUMP CAST DATA

<u>Maximum Service Temperature:</u>	2730°F (1499°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)
<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>	Less than 5 cc
1500°F (815°C)	(Typical Loss: <4 cc)

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), 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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02/28/08 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