



PRODUCT DATA

Brand Name: RESCOCAST 3-20R

Description: RESCOCAST 3-20R is a lightweight insulating material designed to replace insulating block. Its low density results in very low "K" factors for super insulation. It can be used as a back up material in bi-wall linings or as a single component lining where the temperatures are not to exceed 2000°F.

Physical properties shown are average values of samples taken under controlled conditions
ASTM test methods used where applicable

Maximum Service Temperature: 2000°F (1095°C)

Water Required for Mixing (by weight) :

Casting	130%
Predampening for Gunning	16% to 25%

<u>Bulk Density (pcf)</u>	<u>Casting Data</u>		<u>Gunning Data</u>	
After 1500°F (815°C)	23	(0.37 g/cm ³)	35	(0.56 g/cm ³)
<u>Cold Crushing Strength (psi)</u>				
After 1500°F (815°C)	75	(5.25 kg/cm ²)	150	(10.5 kg/cm ²)

Thermal Conductivity (K Factor)

Mean Temperature	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
500°F (260°C)	0.9	0.13	1.05	0.15
1000°F (540°C)	0.9	0.13	1.15	0.17
1500°F (815°C)	1.1	0.16	1.25	0.19

Permanent Linear Change (%)

After 1500°F (815°C)	-1.5 to -0.8	-1.5 to -0.5
After 2000°F (1540°C)	-2.0 to -1.0	-0.4 to 0.0

Apparent Porosity (%)

After 1000°F (540°C)	80	75
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Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	37.3
Silica (SiO ₂)	23.0
Lime (CaO)	19.4
Iron Oxide (Fe ₂ O ₃)	5.1
Titania (TiO ₂)	1.0
Magnesia (MgO)	10.5
Alkalies (Na ₂ O+K ₂ O)	3.7

Standard Packaging: 25 lb bag. 50 bags per pallet. Bulk packaging available.

Brand Code: 0318

The properties shown on this data sheet represent typical average results 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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05/1/19 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.

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