



PRODUCT DATA

Brand Name: RESCOCAST 3A PANEL MIX

Description: RESCOCAST 3A is a lightweight, low iron, insulating panel mix which has a service limit temperature of 2500°F. It is used primarily where reducing atmospheres may be present.

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

Maximum Service Temperature: 2500°F (1370°C)

Bulk Density (pcf)

After 1500°F (815°C) 62 (0.99 g/cm³)

Cold Crushing Strength (psi)

After 1500°F (815°C) 375 (26.25 kg/cm²)
After 2000°F (1095°C) 375 (26.25 kg/cm²)
After 2500°F (1370°C) 475 (33.25 kg/cm²)

Modulus of Rupture (psi)

After 1500°F (815°C) 150 (10.5 kg/cm²)
After 2000°F (1095°C) 150 (10.5 kg/cm²)
After 2500°F (1370°C) 200 (14 kg/cm²)

Thermal Conductivity (K Factor)

	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
500°F (260°C)	1.40	0.20
1000°F (538°C)	1.60	0.23
1500°F (815°C)	1.70	0.25
2000°F (1095°C)	1.85	0.27

Permanent Linear Change (%)

After 1500°F (815°C) -0.5 to -0.1
After 2000°F (1095°C) -0.9 to -0.4
After 2500°F (1370°C) -1.3 to -0.8

Porosity (%)

After 1500°F (815°C) 50.0

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	41.9
Silica (SiO ₂)	44.6
Iron Oxide (Fe ₂ O ₃)	1.0
Titania (TiO ₂)	0.8
Lime (CaO)	10.4
Magnesia (MgO)	0.1
Alkalies (Na ₂ O+K ₂ O)	1.2

Standard Packaging: 50 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 0324

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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