



# PRODUCT DATA

**Brand Name: PACOCAST 28LI COARSE**

**Description:** PACOCAST 28LI COARSE GRAIN offers the qualities of a Pyrophyllite/Andalusite mineral based composition in a coarse grained package. Maximum aggregate size in this product is 1/2 to 3/4 of an inch. Pacocast 28LI Coarse Grain is designed for use in applications where mechanical abuse and impacts are common.

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

**Maximum Service Temperature: 2800°F (1540°C)**

**Bulk Density (pcf)**

After 1500°F (815°C)	123 - 133	(1.97 - 2.13 g/cm <sup>3</sup> )
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**Modulus of Rupture (psi)**

After 1500°F (815°C)	200 - 600	(14 - 42 kg/cm <sup>2</sup> )
After 2500°F (1370°C)	300 - 700	(21 - 50 kg/cm <sup>2</sup> )

**Cold Crushing Strength (psi)**

After 1500°F (815°C)	3000 - 5000	(210 - 350 kg/cm <sup>2</sup> )
After 2500°F (1370°C)	2500 - 5500	(175 - 386 kg/cm <sup>2</sup> )

**Permanent Linear Change (%)**

After 1500°F (815°C)	-0.1 to +0.2
After 2000°F (1095°C)	-0.1 to +0.2
After 2500°F (1370°C)	-0.4 to 0.0

**Thermal Conductivity (K Factor)**

Mean Temperature	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
1000°F (540°C)	4.6	0.66
1500°F (815°C)	4.9	0.71
2000°F (1095°C)	5.4	0.78

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	43.0
Silica (SiO <sub>2</sub> ) .....	48.8
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.0
Titania (TiO <sub>2</sub> ) .....	1.4
Lime (CaO) .....	5.7
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.1

Brand Code: 0470

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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