



Conventional Castables

Cast Data

PACOCAST 28LI

PACOCAST 28LI Castable combines the qualities of a Pyrophyllite/Andalusite mineral based composition with excellent gunning characteristics. Its low iron content makes it ideal for higher temperatures and reducing atmospheres. This product can be installed using vibration casting or conventional gunning methods.

CAST DATA

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

Bulk Density:

After 1500°F (815°C): 122- 132 lbs/ft³ (1952-2112 kg/m³)

Cold Crushing Strength:

After 1500°F (815°C): 2500-5500 psi (175-385 kg/cm²)

After 2500°F (1370°C): 3500-4500 psi (245-315 kg/cm²)

After 2750°F (1510°C): 4000-5000 psi (280-350 kg/cm²)

Modulus of Rupture:

After 1500°F (815°C): 200- 400 psi (14- 28 kg/cm²)

After 2500°F (1370°C): 700-1000 psi (50- 70 kg/cm²)

After 2750°F (1510°C): 1400-1800 psi (100-126 kg/cm²)

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): 0.0 to +0.2

After 2750°F (1510°C): -0.1 to +0.2

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	Alkalies
43.0	48.8	1.0	5.7	Tr.	1.4	0.1

Standard Packaging: 42 - 80 lb. bags per pallet

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 RESKO sales representative or RESKO website to determine you have the current sheet

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GUNNED DATA

Data shown are the average results of tests following the guidelines set forth in ASTM C-903, "Preparing Refractory Castable Specimens by Cold Gunning." Results will vary subject to normal variations in manufacturing, testing and installation procedures in the field.

<u>Maximum Service Temperature:</u>	2800°F (1540°C)
<u>Bulk Density:</u>	120-130 lbs/ft ³ (1920-2080 kg/m ³)
<u>Cold Crushing Strength:</u>	
After 1500°F (815°C):	2000-4000 psi (140-280 kg/cm ²)
After 2500°F (1370°C):	2000-4000 psi (140-280 kg/cm ²)
After 2750°F (1510°C):	5000-7000 psi (350-490 kg/cm ²)
<u>Modulus of Rupture:</u>	
After 1500°F (815°C):	300- 700 psi (21- 49 kg/cm ²)
After 2500°F (1370°C):	700-1000 psi (50- 70 kg/cm ²)
After 2750°F (1510°C):	1000-1500 psi (70-105 kg/cm ²)
<u>Permanent Linear Change (%):</u>	
After 1500°F (815°C):	0.0 to +0.2
After 2000°F (1095°C):	-0.1 to +0.2
After 2500°F (1370°C):	0.0 to +0.2
After 2750°F (1510°C):	-0.1 to +0.2

Thermal Conductivity or "K" Factor:

Mean Temp.	BTU/ft ² /Hr/°F/in	W/mK
1000°F (540°C)	4.6	0.66
1500°F (815°C)	4.9	0.71
2000°F (1095°C)	5.4	0.78