



General Duty Castables

Product Data

PACOCAST 24AR

PACOCAST 24AR is an acid resistant product, having an effective pH range of 3.5 to 10.0. The product is recommended for stacks, breechings, ducts, scrubbers, etc., where products of combustion can form acid condensates. **PACOCAST 24AR** is an economical alternative to the higher priced products currently being used in the field. The product can be applied by gunite, casting, or troweling.

Maximum Service Temperature: 2450°F (1345°C)

Bulk Density: 121 lbs/ft³ (1936 kg/m³)

Cold Crushing Strength:

220°F (105°C)	4000-6000 psi (280-420 kg/cm ²)
1500°F (815°C)	2000-4000 psi (140-280 kg/cm ²)
2500°F (1370°C)	2000-4000 psi (140-280 kg/cm ²)

Modulus of Rupture:

220°F (105°C)	600-1000 psi (42-70 kg/cm ²)
1500°F (815°C)	300- 500 psi (21-35 kg/cm ²)
2500°F (1370°C)	300- 500 psi (21-35 kg/cm ²)

Permanent Linear Change(%):

1500°F (815°C)	0.0 to +0.3
2000°F (1095°C)	-0.1 to +0.2
2500°F (1370°C)	0.0 to +2.0

Conductivity or "K" Factor:

Mean Temp.	BTU/ft ² /Hr/°F/in	W/mK
500°F (260°C)	4.4	0.63
1000°F (540°C)	4.7	0.68
1500°F (815°C)	5.2	0.75

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	Alkalies
37.9	48.1	1.1	11.5	Tr.	1.2	0.2

Standard Packaging: 72 - 55 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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GUNITE DATA

PACOCAST 24AR can also be readily applied by gunite application. Data shown are average results of tests following the guidelines as set forth in ASTM C-903-70, "Preparing Refractory Concrete Specimens by Cold Gunning".

Maximum Service Temperature: 2450°F (1345°C)

Bulk Density: 110-120 lbs/ft³ (1760-1920 kg/m³)

Cold Crushing Strength:

220°F (105°C)	5000-7000 psi (280-420 kg/cm ²)
1500°F (815°C)	1500-3000 psi (105-210 kg/cm ²)
2500°F (1370°C)	1500-3000 psi (105-210 kg/cm ²)

Modulus of Rupture:

220°F (105°C)	600-1000 psi (42-70 kg/cm ²)
1500°F (815°C)	250- 500 psi (18-35 kg/cm ²)
2500°F (1370°C)	250- 500 psi (18-35 kg/cm ²)

Permanent Linear Change(%):

1500°F (815°C)	0.0 to +0.2
2000°F (1095°C)	-0.1 to +0.2
2500°F (1370°C)	0.0 to +2.0