



General Duty Castables

Product Data

PYROCAST ARC

PYROCAST ARC is an acid resistant high strength alumina silicate concrete used in power industry coal fired scrubbers, vessels, tanks, ducts and flues, where sulfuric and sulfurous acid vapors, hydrogen sulfide, or salt solutions are corrosive to steel. Use only in a pH range of 4 to 12. Not recommended for hydrofluoric, hydrochloric, or nitric acids.

Maximum Service Temperature: 1000°F (540°C)

Bulk Density: 125 lbs/ft³ (2000 kg/m³)

Cold Crushing Strength:

220°F (100°C)	6000-10000 psi (420-700 kg/cm ²)
500°F (260°C)	5000- 9000 psi (350-630 kg/cm ²)
1000°F (540°C)	4000- 8000 psi (280-560 kg/cm ²)

Modulus of Rupture:

220°F (100°C)	800- 1200 psi (56-84 kg/cm ²)
500°F (260°C)	400- 800 psi (28-56 kg/cm ²)
1000°F (540°C)	300- 700 psi (21-49kg/cm ²)

Permanent linear change(%):

220°F (100°C)	0.0 to -0.1
500°F (260°C)	0.0 to -0.1
1000°F (540°C)	-0.1 to -0.3

Conductivity or “K” Factor:

Mean Temp.	BTU/ft ² /Hr/°F/in	W/mK
500°F (260°C)	5.0	0.72
1000°F (540°C)	5.5	0.79

Typical Chemical Analysis(%)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	Alkali
18.2	61.9	5.5	13.7	0.2	0.5

Standard Packaging: 40 - 100 lb. bags per pallet (Dry)

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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