



# Insulating Castables

## Product Data

### RESCOCAST 3APC

**RESCOCAST 3APC** is a lightweight, low iron, insulating castable which has a service limit temperature of 2500°F. It is used primarily where reducing atmospheres may be present. **RESCOCAST 3APC** can be applied by either casting, pump casting or wet shotcrete methods.

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

**Bulk Density:** 62 lbs/ft<sup>3</sup> (992 kg/m<sup>3</sup>)

**Cold Crushing Strength:**

1500°F ( 815°C)	300-450 psi (21-32 kg/cm <sup>2</sup> )
2000°F (1095°C)	300-450 psi (21-32 kg/cm <sup>2</sup> )
2500°F (1370°C)	400-550 psi (28-39 kg/cm <sup>2</sup> )

**Modulus Of Rupture:**

1500°F ( 815°C)	100-200 psi ( 7-14 kg/cm <sup>2</sup> )
2000°F (1095°C)	100-200 psi ( 7-14 kg/cm <sup>2</sup> )
2500°F (1370°C)	150-250 psi (11-18 kg/cm <sup>2</sup> )

**Permanent Linear Change(%):**

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

**Porosity(%):** 50

**Thermal Conductivity or “K” Factor:**

Mean Temp.	BTU/ft <sup>2</sup> /Hr/°F/in	W/mK
500°F ( 260°C)	1.40	0.20
1000°F ( 540°C)	1.60	0.23
1500°F ( 815°C)	1.70	0.25
2000°F (1095°C)	1.85	0.27

**Typical Chemical Analysis(%):**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Alkalies	TiO <sub>2</sub>
41.9	44.6	1.0	10.4	0.1	1.2	0.8

**Standard Packaging:** 50 - 50 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 RESCO sales representative or RESCO website to determine you have the current sheet