

# Insulating Castables

## Product Data

### Rescocast RS-3005 NSD

Rescocast RS-3005 NSD is a high purity insulating castable based on Calcium Hexa-Aluminate aggregate. This product features a low thermal conductivity combined with a very high maximum temperature limit. Extremely low amounts of silica and iron oxide make this product ideal for use in carbon monoxide and hydrogen atmospheres especially at high temperatures. Vibration Casting is the recommended installation method.

**Maximum Service Temperature:** 1870°C

**Maximum Grain Size:** 3 mm

**Bulk Density:**

Dried to 110°C	1440 – 1540 kg/m <sup>3</sup>	( 90 – 96 Lbs/ft <sup>3</sup> )
Fired to 815°C	1280 – 1380 kg/m <sup>3</sup>	( 80 – 86 Lbs/ft <sup>3</sup> )

**Cold Crushing Strength:**

Dried to 110°C	110 - 145 kg/cm <sup>2</sup>	(1600 - 2100 psi)
Fired to 815°C	76 - 110 kg/cm <sup>2</sup>	(1100 - 1600 psi)

**Permanent Linear Change(%):**

Green to 110°C	0.0 to -0.1
Fired to 815°C	0.0 to -0.3

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

Mean Temp.	BTU/ft <sup>2</sup> /HR/°F/in	W/mK
1000°F ( 540°C)	2.8	0.40

**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
Typical	86.8	0.2	0.1	12.6	0.3

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions 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. RESCO PRODUCTS disclaims any expressed or implied warranties based on this sheet. 01/08/13 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