PRODUCT DATA

RESCO® PRODUCTS, INC.

Brand Name: **Rescocast RS-3005 NS**

Description: High purity alumina insulating castable. Vibration casting is the recommended installation method for this product. This product features a low thermal conductivity and a very high maximum temperature limit. The trace amounts of silica and iron oxide make this product ideal for use in carbon monoxide and hydrogen atmospheres especially at high temperatures.

Maximum Service Temperature …… **3400°F (1870°C)**

Typical Water Required for Mixing :

Vibration Cast …….. **43%**

Mixing Time …….. **4 minutes**

Bulk Density (pcf)		
After 230°F (110°C)	**85**	**(1360 kg/m^3)**
After 1500°F (815°C)	**78**	**(1248 kg/m^3)**
After 2300°F (1260°C)	**79**	**(1264 kg/m^3)**
Cold Crushing Strength (psi)		
After 1500°F (815°C)	**870**	**(61 kg/cm^2)**
After 2300°F (1260°C)	**1300**	**(91 kg/cm^2)**
Modulus of Rupture (psi)		
After 1500°F (815°C)	**250**	**(17 kg/cm^2)**
After 2300°F (1260°C)	**320**	**(22 kg/cm^2)**
Permanent Linear Change (%)		
After 1500°F (815 °C)	**-0.2**	
After 2800°F (1538°C)	**-0.8**	

Thermal Conductivity (K Factor)		
Mean Temperature:	**BTU/ft^2/Hr/°F/in.**	**W/mK**
1000°F (540°C)	**2.7**	**0.39**

Typical Chemical Analysis (%)

Al_2O_3 ……	**89.8 %**
SiO_2 ……	**0.1**
Fe_2O_3 ……	**0.1**
MgO ……	**0.2**
CaO ……	**9.5**
Alkalies ……	**0.3**

Standard Packaging: **50 lb bag**

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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