



# PRODUCT DATA

**Brand Name:**

## RESCORAM A-80

**Description:** RESCORAM A-80 is a high alumina, air-setting, 3300°F service temperature plastic refractory that is used throughout the metals, power, cement and lime producing industries where higher temperature requirements demand a higher PCE or more refractory material.

Physical properties shown are average values of samples taken under controlled conditions  
ASTM test methods used where applicable

**Maximum Service Temperature: 3300°F (1815°C)**

<u>Bulk Density (pcf)</u>	<u>Ramming Data</u>	
	As Received	165
<u>Modulus of Rupture (psi)</u>		
After 1800°F (980°C)	300	(21 kg/cm <sup>2</sup> )
After 2550°F (1400°C)	750	(53 kg/cm <sup>2</sup> )
After 2700°F (1480°C)	850	(60 kg/cm <sup>2</sup> )

### Thermal Conductivity (K Factor)

Mean Temperature	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
1000°F (540°C)	10.2	1.47
1500°F (815°C)	10.5	1.51
2000°F (1093°C)	10.7	1.54

### Permanent Linear Change (%)

After 1800°F (980°C)	-0.2 to +0.2
After 2550°F (1400°C)	-0.6 to 0.0
After 2700°F (1480°C)	-0.1 to +0.4

### Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	79.1
Silica (SiO <sub>2</sub> ) .....	16.8
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.5
Titania (TiO <sub>2</sub> ) .....	2.4
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.2

**Standard Packaging:** 55 lb carton. 64 cartons per pallet

Brand Code: 0209

The properties shown on this data sheet represent typical average results 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.

RESOCO PRODUCTS disclaims any express or implied warranties based on this sheet.

03/27/17 is the date that this data sheet was updated. Check with your RESOCO sales representative or RESOCO website to determine you have the current sheet.