



# PRODUCT DATA

**Brand Name:**

**RESCORAM 85S**

**Description:**

PHOSPHATE BONDED ALUMINA PLASTIC

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

**Maximum Service Temperature: 3000°F (1650°C)**

<u>Bulk Density (pcf)</u>	<u>Ramming Data</u>	
As Received	183	(2.93 g/cm <sup>3</sup> )
After 1500°F (815°C)	163	(2.45 g/cm <sup>3</sup> )
 <u>Modulus of Rupture (psi)</u>		
After 1500°F (815°C)	1700	(119 kg/cm <sup>2</sup> )
 <u>Thermal Conductivity (K Factor)</u>		
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 1500°F (815°C) -0.03

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	83.1
Silica (SiO <sub>2</sub> ) .....	9.4
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.2
Lime (CaO) .....	0.1
Magnesia (MgO) .....	0.3
Titania (TiO <sub>2</sub> ) .....	2.2
Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ) .....	3.2
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.5

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

Brand Code: 0603

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.

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