



# PRODUCT DATA

Brand Name:

## RESCORAM 70M

**Description:** RESCORAM 70M is a mullite, phosphate-bonded plastic material that is used throughout the metals, power, cement, and lime producing industries. Its chemical bond develops high strength at lower temperatures. This property makes it ideal for application where there is insufficient heat to develop the ceramic bond required in heat-setting plastics. This product is designed to resist alkali attack.

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

**Maximum Service Temperature: 3100°F (1704°C)**

		<u>Ramming Data</u>	
<u>Bulk Density (pcf)</u>	As Received	165	(2.64 g/cm <sup>3</sup> )
<u>Modulus of Rupture (psi)</u>			
	After 1500°F (815°C)	1325	(93 kg/cm <sup>2</sup> )
	After 2500°F (1370°C)	2050	(143 kg/cm <sup>2</sup> )
	After 2910°F (1600°C)	2000	(140 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)	9.2	1.47
	1500°F (815°C)	9.0	1.51
	2000°F (1093°C)	8.8	1.54
<u>Permanent Linear Change (%)</u>			
	220°F (540°C) to 1500°F (815°C)	+0.02	
	220°F (540°C) to 2500°F (1370°C)	-0.38	
<u>Abrasion Loss (using ASTM C-704 Method)</u>			
	After 1500°F (815°C)	Less than 13 cc	
<u>Typical Chemical Analysis (%)</u>			
<u>(Calcined Basis)</u>			
	Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	72.0	
	Silica (SiO <sub>2</sub> ) .....	20.6	
	Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.0	
	Lime (CaO) .....	0.1	
	Magnesia (MgO) .....	0.2	
	Titania (TiO <sub>2</sub> ) .....	1.8	
	Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ) .....	3.9	
	Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.4	

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

Brand Code: 0546

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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