



PRODUCT DATA

Brand Name: RESCORAM 85

Description: RESCORAM 85 is a high alumina, 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.

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>	Ramming Data	
As Received	182	(2.91 g/cm ³)

<u>Modulus of Rupture (psi)</u>		
After 1500°F (815°C)	1720	(120 kg/cm ²)
After 2500°F (1370°C)	2700	(189 kg/cm ²)
After 2910°F (1600°C)	2660	(186 kg/cm ²)

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

<u>Permanent Linear Change (%)</u>	
After 1500°F (815°C)	-0.03
After 2500°F (1370°C)	-0.36
After 2910°F (1600°C)	-1.77

<u>Erosion Loss using ASTM C-704</u>	
After 1500°F (815°C)	Less than 10 cc

<u>Typical Chemical Analysis (%)</u>	
(Calcined Basis)	
Alumina (Al ₂ O ₃)	84.8
Silica (SiO ₂)	7.4
Iron Oxide (Fe ₂ O ₃)	1.2
Lime (CaO)	0.1
Magnesia (MgO)	0.3
Titania (TiO ₂)	2.1
Phosphorus Pentoxide (P ₂ O ₅)	3.6
Alkalies (Na ₂ O+K ₂ O)	0.5

Standard Packaging: 55 lb carton. 64 cartons per pallet

Brand Code: 0502

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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