



# Plastics and Ramming Mixes

## Product Data

### RESCORAM 10 CR

**RESCORAM 10 CR** is a high alumina, phosphate-bonded plastic with 10% chromic oxide that is used throughout the metals 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.

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

**Bulk Density:** (As installed) 203 lbs/ft<sup>3</sup> (3252 kg/m<sup>3</sup>)

**Modulus of Rupture:**

1500°F ( 815°C) 2000 psi (140 kg/cm<sup>2</sup>)  
2500°F (1370°C) 1900 psi (134 kg/cm<sup>2</sup>)

**Drying Shrinkage (green - 220°F):** 1.7 %

**Permanent Linear Change (%):**

(220°F to fired)  
1500°F ( 815°C) - 0.2  
2500°F (1370°C) - 0.3

**Conductivity or "K" Factor:**

Mean Temp.	BTU/ft <sup>2</sup> /Hr/°F/in	W/mK
1000°F (538°C)	18.0	2.59
1500°F (815°C)	18.9	2.72
2000°F (1093°C)	20.9	3.01

**Erosion Loss:** ASTM C-704 Less than 10 cc  
(Typical: 6 - 8 cc)

**Typical Chemical Analysis(%):**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Cr <sub>2</sub> O <sub>3</sub>	Alkalies	P <sub>2</sub> O <sub>5</sub>
83.3	2.6	0.1	0.1	0.2	10.5	0.2	3.0

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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