



# Plastics and Ramming Mixes

## Product Data

### RESCORAM A-45 HEAT SET

**RESCORAM A-45 HEAT SET** is a super duty, heat-setting, 3000°F service temperature plastic refractory that is used throughout the metals and power producing industries where higher temperature requirements demand a more refractory material. It is manufactured using Pyrophyllite-Andalusite-Alumina materials which give the product unique long term hot load resistance.

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

**Bulk Density:** (As installed) 143 lbs/ft<sup>3</sup> (2295 kg/m<sup>3</sup>)

#### **Modulus of Rupture:**

1800°F ( 980°C)	150 psi ( 11 kg/cm <sup>2</sup> )
2500°F (1370°C)	515 psi ( 36 kg/cm <sup>2</sup> )
2700°F (1480°C)	1390 psi ( 97 kg/cm <sup>2</sup> )

#### **Cold Crushing Strength:**

1800°F ( 980°C)	1130 psi ( 79 kg/cm <sup>2</sup> )
2500°F (1370°C)	1770 psi ( 124 kg/cm <sup>2</sup> )
2700°F (1480°C)	3905 psi ( 273 kg/cm <sup>2</sup> )

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

#### **Permanent Linear Change (%):**

Based on Dried length

1500°F ( 815°C)	0.0
2500°F (1370°C)	+0.2
2910°F (1600°C)	+0.3

#### **Conductivity or "K" Factor:**

Mean Temp.	BTU/ft <sup>2</sup> /Hr/°F/in	W/mK
1000°F ( 540°C)	6.2	0.89
1500°F ( 815°C)	6.8	0.98
2000°F (1095°C)	7.5	1.08

#### **Typical Chemical Analysis(%):**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	Alkalies
42.8	54.2	1.0	1.3	0.1	0.1	0.5

**Standard Packaging:** 32 - 100 lb. cartons per pallet

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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