



Plastics and Ramming Mixes

Product Data

RESCORAM A-45

RESCORAM A-45 is a super duty, air-setting, 3100°F service temperature plastic refractory that is used throughout the metals and power producing industries where higher temperature requirements demand a higher PCE or 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: 3100°F (1700°C)

Long Time Load Test: 3.6 Percent after 100 hours
(Deformation under 25 psi load @ 2600°F)

Bulk Density: (As installed) 148 lbs/ft³ (2368 kg/m³)

Modulus of Rupture:

220°F (105°C)	150-300 psi (10-21 kg/cm ²)
1800°F (980°C)	75-250 psi (5-18 kg/cm ²)
2550°F (1400°C)	400-600 psi (28-42 kg/cm ²)
2700°F (1480°C)	400-600 psi (28-42 kg/cm ²)

Drying Shrinkage (green - 220°F): 1.3%

Permanent Linear Change (%):

Based on Dried length

1800°F (980°C)	+0.8 to +1.2
2550°F (1370°C)	+1.0 to +1.4
2700°F (1480°C)	+1.0 to +1.4
2910°F (1600°C)	+1.0 to +1.4

Conductivity or "K" Factor:

Mean Temp.	BTU/ft ² /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 ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	MgO	Alkalies
43.6	54.2	0.8	0.7	0.1	0.1	0.5

Standard Packaging: 64 - 55 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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