



Plastics and Ramming Mixes

Product Data

RESCORAM 70

RESCORAM 70 is a high alumina, phosphate bonded, 3100°F service temperature plastic that offers excellent resistance to alkali attack. Phosphate bonding allows **RESCORAM 70** to develop high strength at lower temperatures.

Maximum Service Temperature: 3100°F (1700°C)

Bulk Density: (As installed) 175 lbs/ft³ (2803 kg/m³)

Modulus of Rupture:

1500°F (815°C)	800-1200 psi (56- 84 kg/cm ²)
1700°F (927°C)	800-1300 psi (56- 91 kg/cm ²)
2000°F (1095°C)	1100-1500 psi (77-105 kg/cm ²)
2500°F (1370°C)	1000-1400 psi (70- 98 kg/cm ²)
2910°F (1600°C)	1200-1500 psi (84-105 kg/cm ²)

Cold Crushing Strength:

1500°F (815°C)	3000-5500 psi (210-385 kg/cm ²)
1700°F (927°C)	3000-5500 psi (210-385 kg/cm ²)
2000°F (1095°C)	3500-6000 psi (245-420 kg/cm ²)
2500°F (1370°C)	3500-6000 psi (245-420 kg/cm ²)
2910°F (1600°C)	3500-6000 psi (245-420 kg/cm ²)

Drying Shrinkage: 1.3 - 1.6%

Permanent Linear Change (%):

Based on Dried length

1800°F (980°C)	- 0.1 to +0.3
2550°F (1400°C)	+1.0 to +1.4
2700°F (1480°C)	+1.1 to +1.5
2910°F (1600°C)	+2.0 to +2.5

Conductivity or “K” Factor:

Mean Temp.	BTU/ft ² /Hr/°F/in	W/mK
1000°F (540°C)	9.8	1.41
1500°F (815°C)	10.2	1.47
2000°F (1095°C)	10.4	1.50

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

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	TiO ₂	Alkalies	P ₂ O ₅
67.7	24.3	1.0	0.1	1.7	0.6	4.6

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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