PRODUCT DATA

Brand Name: **RESCORAM A-45HC**

Description: Rescoram A-45HC is a super duty, air-setting, plastic refractory that is designed primarily for high temperature boiler service. This product exceeds ASTM standard for PCE 32-1/2.

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)

	Ramming Data	
Bulk Density (pcf)		
As Received	143	(2.29 g/cm^3)
Modulus of Rupture (psi)		
After 1800°F (980°C)	150	(11 kg/cm^2)
After 2500°F (1370°C)	515	(36 kg/cm^2)
After 2700°F (1480°C)	1390	(97 kg/cm^2)
Cold Crushing Strength (psi)		
After 1800°F (980°C)	1130	(79 kg/cm^2)
After 2500°F (1370°C)	1770	(124 kg/cm^2)
After 2700°F (1480°C)	3905	(273 kg/cm^2)

Thermal Conductivity (K Factor)

Mean Temperature	BTU/ft^2/hr./°F/inch	W/mK
1000°F (540°C)	6.2	0.89
1500°F (815°C)	6.8	0.98
2000°F (1093°C)	7.5	1.08

Permanent Linear Change (%)

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

Typical Chemical Analysis (%)
(Calcined Basis)

Alumina (Al_2O_3)	42.8
Silica (SiO_2)	54.2
Iron Oxide (Fe_2O_3)	1.0
Lime (CaO)	0.1
Titania (TiO_2)	1.3
Magnesia (MgO)	0.1
Alkalies (Na_2O+K_2O)	0.5

Standard Packaging: 55 lb carton. 64 cartons per pallet

Brand Code: 0221

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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03/27/17 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet.

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