

Product Data

09/05: 5731

Description: 85% Alumina, Phosphate-Bonded Patching Plaster

- Features:**
- Formulated for application by trowel or by hand.
 - Will not shrink or crack on heatup.
 - Resists metal and slag erosion.
 - Can be used on hot surfaces.
- Uses:**
- Metal and non-metal contact areas which have spalled or eroded.

Chemical Analysis: Approximate (Calcined Basis)

Silica (SiO ₂)	10.2%
Alumina (Al ₂ O ₃)	83.7%
Iron Oxide (Fe ₂ O ₃)	1.0%
Titania (TiO ₂)	1.9%
Phosphorus Pentoxide (P ₂ O ₅)	2.8%
Alkalies (Na ₂ O+K ₂ O)	0.4%

Physical Data (Typical)

	Pressed
Material Required	175 lb/ft ³ (2.80 g/cm ³)
Bulk Density	lb/ft ³ (g/cm ³)
After 450°F (230°C)	167 (2.68)
After 2500°F (1370°C)	161 (2.60)
After 3000°F (1650°C)	170 (2.72)
Modulus of Rupture	lb/in. ² (MPa)
After 450°F (230°C)	1,600 (11.0)
After 2500°F (1370°C)	1,800 (12.4)
After 3000°F (1650°C)	1,000 (6.9)
Hot Modulus of Rupture	lb/in. ² (MPa)
At 2700°F (1480°C)	445 (3.1)
Cold Crushing Strength	lb/in. ² (MPa)
After 450°F (230°C)	3,600 (24.8)
After 2500°F (1370°C)	15,000 (103.4)
After 3000°F (1650°C)	8,100 (55.8)
Permanent Linear Change	
After 450°F (230°C)	-0.5%
After 2500°F (1370°C)	+1.1%
After 3000°F (1650°C)	+0.2%
Pyrometric Cone Equivalent	38
Adhesion Test	
1/8-inch Thick, After 2900°F (1595°C)	Will not peel

Note: The test data shown are based on average results on production samples and are subject to normal variation on individual tests. The test data cannot be taken as minimum or maximum values for specification purposes. ASTM test procedures used when applicable.

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Mixing and Using Information

Material is supplied ready to use.

Heatup/Dryout Schedule

See HWI Dryout Schedule 5— Standard Plastics and Rams.

Installation Guidelines

See HWI Installation Guidelines P-1—Plastics.

Shelf Life (Under Proper Storage Conditions)

180 days
