



PRODUCT DATA

Brand Name: ADAPHOS 85

Description: ADAPHOS 85 is a wet ready-mixed high alumina bonding mortar with a chemical bonding system. With the unique bonding system, a high bonding strength is developed at lower temperatures (300-600°F) and the high bonding strength continues until a ceramic bonding occurs. ADAPHOS 85 is primarily used to lay up high alumina brick in ladles and is available in both trowelling and dipping consistencies. It is used in areas where severe service conditions require increased refractoriness to corrosion/erosion from slags.

Physical properties shown are average values of samples taken under controlled conditions
ASTM test methods used where applicable

Maximum Service Temperature: 3200°F (1760°C)

Pyrometric Cone Equivalent (ASTM C-24) : Cone 38+

Modulus of Rupture (psi) :

After 2550°F (1400°C) 800 (56 kg/cm²)

Typical Chemical Analysis (%)

(Calcined Basis)

| | |
|--|------|
| Alumina (Al ₂ O ₃) | 82.7 |
| Silica (SiO ₂) | 12.4 |
| Iron Oxide (Fe ₂ O ₃) | 0.5 |
| Titania (TiO ₂) | 1.0 |
| Other | 3.4 |

Standard Packaging: 55 lb. pails. 48 pails per pallet

ADAPHOS 85 should be stored in a dry place between 32°F (0°C) and 100°F (38°C). For best results use within two months.

Brand Code: 0113 (Dip) 0114 (Trowel)

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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