



# PRODUCT DATA

**Brand Name:** HM 70

**Description:** HM 70 is a High Alumina refractory composition bonded with Low Iron Cement. HM 70 is designed for general purpose repairs where there is a need for resistance to high temperatures and erosion.

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

**Maximum Service Temperature: 3000°F (1649°C)**

**Bulk Density (pcf)**

	<u>Gunning Data</u>	
After 300°F (149°C)	145	(2.32 g/cm <sup>3</sup> )
After 2200°F (1204°C)	140	(2.24 g/cm <sup>3</sup> )
After 2800°F (1538°C)	135	(2.16 g/cm <sup>3</sup> )

**Modulus of Rupture (psi)**

After 300°F (149°C)	600 - 900	(42 - 63 kg/cm <sup>2</sup> )
After 2200°F (1204°C)	600 - 800	(42 - 56 kg/cm <sup>2</sup> )
After 2800°F (1538°C)	1500 - 2000	(105 - 140 kg/cm <sup>2</sup> )

**Permanent Linear Change (%)**

After 300°F (149°C)	0
After 2200°F (1204°C)	-0.3
After 2800°F (1538°C)	1.6

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	66.3
Silica (SiO <sub>2</sub> ) .....	26.3
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.4
Titania (TiO <sub>2</sub> ) .....	1.9
Lime (CaO) .....	3.6
Magnesia (MgO) .....	0.1
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.4

**Standard Packaging:** 55 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 3033

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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