



# PRODUCT DATA

**Brand Name:** HM 28 LI CO

**Description:** HM 28LI CO is a low iron refractory gunning mix based on hard fired alumina/silica aggregate of approximately 60% mullite content and a low iron calcium aluminate binder, designed for Coke Oven gunning.

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

**Maximum Service Temperature: 2800°F (1538°C)**

**Bulk Density (pcf)**

After 300°F (149°C)  
After 2000°F (1093°C)  
After 2500°F (1371°C)

Gunning Data

130	(2.08 g/cm <sup>3</sup> )
133	(2.13 g/cm <sup>3</sup> )
132	(2.11 g/cm <sup>3</sup> )

**Modulus of Rupture (psi)**

After 300°F (149°C)  
After 2000°F (1093°C)  
After 2500°F (1371°C)

600 - 900	(42 - 63 kg/cm <sup>2</sup> )
400 - 500	(28 - 35 kg/cm <sup>2</sup> )
1000 - 1500	(70 - 105 kg/cm <sup>2</sup> )

**Permanent Linear Change (%)**

After 300°F (149°C)  
After 2000°F (1093°C)  
After 2500°F (1371°C)

-0.2 to -0.1  
-0.4 to -0.3  
-0.3 to 0

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	48.6
Silica (SiO <sub>2</sub> ) .....	42.0
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.1
Titania (TiO <sub>2</sub> ) .....	1.8
Lime (CaO) .....	6.2
Magnesia (MgO) .....	0.1
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.1

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

Brand Code: 3192

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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