



PRODUCT DATA

Brand Name: **HI-STRENGTH™ 26-LI**

Description: HI-STRENGTH™ 26-LI was developed to meet the demands for a low iron castable in the 125 lbs/ft³ range. The lower iron content results in better resistance to reducing atmospheres. It has excellent strength throughout its temperature range and very good abrasion and erosion resistance.

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

Maximum Service Temperature: 2600°F (1427°C)

Typical Water Required for Mixing (by weight) :
Vibration Cast 11 - 14%

<u>Bulk Density (pcf)</u>	<u>Vibration Cast Data</u>	
After 220°F (104°C)	130 - 136	(2.08 - 2.18 g/cm ³)
After 1500°F (815°C)	122 - 130	(1.95 - 2.08 g/cm ³)
After 2000°F (1093°C)	120 - 128	(1.92 - 2.05 g/cm ³)

<u>Cold Crushing Strength (psi)</u>		
After 220°F (104°C)	5000 - 8000	(350 - 560 kg/cm ²)
After 1500°F (815°C)	1800 - 4000	(126 - 280 kg/cm ²)
After 2000°F (1093°C)	1500 - 3500	(105 - 245 kg/cm ²)

<u>Modulus of Rupture (psi)</u>		
After 220°F (104°C)	1000 - 1500	(70 - 105 kg/cm ²)
After 1500°F (815°C)	400 - 600	(28 - 42 kg/cm ²)
After 2000°F (1093°C)	400 - 600	(28 - 42 kg/cm ²)

<u>Permanent Linear Change (%)</u>		
After 1500°F (815°C)	-0.2 to +0.2	
After 2000°F (1093°C)	-0.4 to 0.0	

<u>Thermal Conductivity (K Factor)</u>	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
Mean Temperature		
After 1500°F (815°C)	7.3	1.05
After 2000°F (1093°C)	8.0	1.15

<u>Typical Chemical Analysis (%)</u>	
(Calcined Basis)	
Alumina (Al ₂ O ₃)	46.2
Silica (SiO ₂)	39.9
Iron Oxide (Fe ₂ O ₃)	1.4
Titania (TiO ₂)	1.8
Lime (CaO)	9.1
Magnesia (MgO)	0.4
Alkalis (Na ₂ O+K ₂ O)	1.2

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

Brand Code: 0910

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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