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## NEW PRODUCT ANNOUNCEMENT

Thermbond® refractory products are a complete line of engineered refractory materials. Each Thermbond® product is a two-part system (dry formulation and liquid activator) added together to form a uniquely bonded refractory material. The features of this bonding system provide benefits that set Thermbond® apart from conventional materials.

**More Production Time. Less Downtime. Superior Performance.**

### Heatbrake 508 THERMBOND® Light-Weight Castable

Heatbrake 508 has been developed as an improved version of the Thermbond Formula 8 Series which is no longer available. Re-formulated with better physical properties and easier to work with Heatbrake 508 is designed as an 80 pound density insulating castable with a 2800°F temperature limit. Available in two grades: Heatbrake 508-B casting grade material and the Heatbrake 508-G gunnite grade Formulation.

PACKAGING		
Bag Weight*	30 lbs	13.6 kg
Jug Weight*	8 lbs	3.6 kg
Drum Weight*	400 lbs	181.4 kg
Unit Weight*	41 lbs	18.5 kg
Yield / Unit*	0.50 ft3	0.014 m3
Units / Ton*	49.02 short	54.03 metric
Wet to Dry Ratio*	34.2% - 37.8%	
Liquid Activator	HEATBRAKE	
Bags Per Pallet	72	
Drums Per Dry Pallet	2 (predampen 1 jug to 3 bags)*	

APPLICATION***	
Data based on	Gunning
Alternative Method***	Casting

BULK DENSITY**		
As Placed	81 lbs/ft3	1297 kg/m3
After 1500F (816C)	78 lbs/ft3	1249 kg/m3

MAXIMUM RECOMMENDED SERVICE TEMP**		
Hot Face	2800 F	1538 C

COMPRESSIVE STRENGTH**			
1500F (816C)	800 psi	56 kg/cm2	5.5 N/mm2

PERMANENT LINEAR CHANGE**	
1500F (816C)	-0.40%
2000F (1093C)	-0.55%
2500F (1371C)	-0.85%

TYPICAL CHEMICAL ANALYSIS (After 1500F (816C))**	
Al2O3	15.55%
SiO2	60.00%
Fe2O3	1.07%
P2O5	14.19%
Other	9.18%
Total	100.00%

THERMAL CONDUCTIVITY**		
1000F (538C)	2.2 Btu-in/hr-ft2-F	0.32 W/m K
1500F (816C)	2.4 Btu-in/hr-ft2-F	0.35 W/m K
1500F (816C)	2.4 Btu-in/hr-ft2-F	0.35 W/m K
2000F (1093C)	2.7 Btu-in/hr-ft2-F	0.39 W/m K

COLD MODULUS OF RUPTURE**			
1500F (816C)	250 psi	18 kg/cm2	1.7 N/mm2

\*Representative data for Heatbrake 508-G

**Fast Setting ♦ Fast Firing ♦ Chemical Bonding ♦ Thermal Shock Resistance ♦ Insulating**

#### INDUSTRIES SERVED

Refining	Non-Ferrous	Zinc	Precast Manufacturing
Rock Products	Die-Casting	Boiler Manufacturing	Mineral Processing
Chemical	Power Generation	Primary Aluminum	O.E.M. Furnace Builders
Steel	Incineration	Secondary Aluminum	Cremation

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