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ENGLISH

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# FORMULA 2125

*Thermbond Refractories use the patented Stellar Binder System™ for easy and accurate mixing, controlled setting, fast dry-out and heat up, thermal shock resistance and other unique properties. Thermbond chemically bonds to existing fired refractories. CHARACTERISTICS: - Medium Weight - Fine Grain - Fast Curing - Insulating*

## PRELIMINARY DATA

PACKAGING		
Unit Equivalent	Bags: 1	Jugs: 1
Bag Weight*	50 lbs	22.7 kg
Jug Weight*	8 lbs	3.6 kg
Drum Weight*	400 lbs	181.4 kg
Unit Weight*	58 lbs	26.1 kg
Yield / Unit*	0.43 ft <sup>3</sup>	0.012 m <sup>3</sup>
Units / Ton*	34.72 short	38.27 metric
Board Feet / Unit*	5.2 bd ft	
Wet to Dry Ratio*	15.2% - 16.7%	
Liquid Activator	FORMULA	
Bags Per Pallet	48	
Drums Per Dry Pallet	1	

APPLICATION	
Data based on	Casting

BULK DENSITY**		
As Placed	134 lbs/ft <sup>3</sup>	2146 kg/m <sup>3</sup>
After 1500F (816C)	124 lbs/ft <sup>3</sup>	1986 kg/m <sup>3</sup>

MAXIMUM RECOMMENDED SERVICE TEMP**		
Hot Face	2500 F	1371 C

ABRASION RESISTANCE** (ASTM C-704)	
After 1500F (816C)	<15 cc loss

COMPRESSIVE STRENGTH**			
1500F (816C)	6800 psi	478 kg/cm <sup>2</sup>	47 N/mm <sup>2</sup>
2300F (1260C)	9000 psi	633 kg/cm <sup>2</sup>	62 N/mm <sup>2</sup>
2500F (1371C)	9000 psi	633 kg/cm <sup>2</sup>	62 N/mm <sup>2</sup>

PERMANENT LINEAR CHANGE**	
1500F (816C)	-0.20%
2300F (1260C)	-0.30%
2500F (1371C)	0.50%

TYPICAL CHEMICAL ANALYSIS (After 1500F (816C))**	
Al <sub>2</sub> O <sub>3</sub>	42.88%
SiO <sub>2</sub>	34.23%
Fe <sub>2</sub> O <sub>3</sub>	0.76%
P <sub>2</sub> O <sub>5</sub>	7.45%
Other	14.68%
Total	100.00%

THERMAL CONDUCTIVITY**		
350F (177C)	7.0 Btu-in/hr-ft <sup>2</sup> -F	1.01 W/m K
550F (288C)	8.0 Btu-in/hr-ft <sup>2</sup> -F	1.15 W/m K
850F (454C)	7.5 Btu-in/hr-ft <sup>2</sup> -F	1.08 W/m K
1100F (593C)	8.0 Btu-in/hr-ft <sup>2</sup> -F	1.15 W/m K

\*Measures are approximate and may vary. For mixing partial units, contact Stellar Materials for specific wet-to-dry ratios. See Installation Guide for more detailed information.

\*\*Test data shown are based on averages subject to normal variation on individual tests, and therefore should not be assumed to be maximum or minimum specifications.

Due to the unique nature of the Stellar binder system, test procedures vary slightly from ASTM. Documentation of these variations is available upon request.