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ENGLISH

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# FORMULA 2125-G

*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*

## P R E L I M I N A R Y   D A T A

PACKAGING		
Bag Weight*	38 lbs	17.2 kg
Jug Weight*	8 lbs	3.6 kg
Drum Weight*	400 lbs	181.4 kg
Unit Weight*	46 lbs	20.7 kg
Yield / Unit*	0.34 ft <sup>3</sup>	0.010 m <sup>3</sup>
Units / Ton*	43.86 short	48.35 metric
Board Feet / Unit*	4.1 bd ft	
Wet to Dry Ratio*	#N/A	
Liquid Activator	#N/A	
Bags Per Pallet	48	
Drums Per Dry Pallet	1 (plus predampening jugs)*	

APPLICATION	
Data based on	Gunning

BULK DENSITY**		
As Placed	133 lbs/ft <sup>3</sup>	2130 kg/m <sup>3</sup>
After 1500F (816C)	120 lbs/ft <sup>3</sup>	1922 kg/m <sup>3</sup>

MAXIMUM RECOMMENDED SERVICE TEMP**		
Hot Face	2300 F	1260 C

ABRASION RESISTANCE** (ASTM C-704)	
After 1500F (816C)	<16 cc loss

COMPRESSIVE STRENGTH**			
1500F (816C)	5000 psi	352 kg/cm <sup>2</sup>	34 N/mm <sup>2</sup>
2000F (1093C)	5000 psi	352 kg/cm <sup>2</sup>	34 N/mm <sup>2</sup>

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

TYPICAL CHEMICAL ANALYSIS (After 1500F (816C))**	
Al <sub>2</sub> O <sub>3</sub>	41.86%
SiO <sub>2</sub>	34.13%
Fe <sub>2</sub> O <sub>3</sub>	0.79%
P <sub>2</sub> O <sub>5</sub>	8.83%
Other	14.38%
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.