



www.thermbond.com

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ENGLISH

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FORMULA 8-B

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: - Silica - Medium Weight - Fast Setting - Fast Curing - Longer Working Time

PACKAGING		
Unit Equivalent	Bags: 1	Jugs: 2
Bag Weight*	26 lbs	11.7 kg
Jug Weight*	8 lbs	3.6 kg
Drum Weight*	400 lbs	181.4 kg
Unit Weight*	41 lbs	18.6 kg
Yield / Unit*	0.41 ft ³	0.012 m ³
Units / Ton*	48.82 short	53.82 metric
Board Feet / Unit*	4.9 bd ft	
Wet to Dry Ratio*	59% - 64.9%	
Liquid Activator	FORMULA	
Bags Per Pallet	72	
Drums Per Dry Pallet	3	

APPLICATION	
Data based on	Casting

BULK DENSITY**		
As Placed	100 lbs/ft ³	1602 kg/m ³
After 1500F (816C)	80 lbs/ft ³	1281 kg/m ³

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

COMPRESSIVE STRENGTH**			
1500F (816C)	2000 psi	141 kg/cm ²	14 N/mm ²
2000F (1093C)	1200 psi	84 kg/cm ²	8 N/mm ²
2500F (1371C)	1200 psi	84 kg/cm ²	8 N/mm ²

PERMANENT LINEAR CHANGE**	
1500F (816C)	-0.70%
2000F (1093C)	-1.40%
2500F (1371C)	-1.30%

TYPICAL CHEMICAL ANALYSIS (After 1500F (816C))**	
Al ₂ O ₃	12.19%
SiO ₂	58.65%
Fe ₂ O ₃	1.01%
P ₂ O ₅	18.50%
Other	9.65%
Total	100.00%

THERMAL CONDUCTIVITY**		
800F (427C)	2.2 Btu-in/hr-ft ² -F	0.32 W/m K
1200F (649C)	2.4 Btu-in/hr-ft ² -F	0.35 W/m K
1500F (816C)	2.4 Btu-in/hr-ft ² -F	0.35 W/m K
2500F (1371C)	3.2 Btu-in/hr-ft ² -F	0.46 W/m K

COLD MODULUS OF RUPTURE**			
1500F (816C)	250 psi	18 kg/cm ²	2 N/mm ²
2000F (1093C)	200 psi	14 kg/cm ²	1 N/mm ²
2500F (1371C)	180 psi	13 kg/cm ²	1 N/mm ²

*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.