ENGLISH

Revision 12/15/2007 (Check www.thermbond.com for updates)

FORMULA 6-P

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: - Alumina - Silica - Mullite - Dense - Fine Grain - Non-Wetting - Fast Setting - Fast Curing

PACKAGING				
Unit Equivalent	Bags: 1	Jugs: 1		
Bag Weight*	51 lbs	23.1 kg		
Jug Weight*	8 lbs	3.6 kg		
Drum Weight*	400 lbs	181.4 kg		
Unit Weight*	59 lbs	26.6 kg		
Yield / Unit*	0.40 ft3	0.011 m3		
Units / Ton*	34.13 short	37.62 metric		
Board Feet / Unit*	4.8 bd ft			
Wet to Dry Ratio*	14.9% - 16.4%			
Liquid Activator	FORMULA			
Bags Per Pallet	48			
Drums Per Dry Pallet	1			

APPLICATION***			
Data based on	Casting		
Alternative Method***	Hand Packing Troweling		

BULK DENSITY**			
As Placed	148 lbs/ft3	2371 kg/m3	
After 1500F (816C)	140 lbs/ft3	2243 kg/m3	

MAXIMUM RECOMMENDED SERVICE TEMP**				
Hot Face	3000 F	1649 C		

ABRASION RESISTANCE** (ASTM C-704)		
After 1500F (816C)	<20 cc loss	

COMPRESSIVE STRENGTH**				
1500F (816C)	4000 psi	281 kg/cm2	28 N/mm2	
2000F (1093C)	8000 psi	562 kg/cm2	55 N/mm2	
2500F (1371C)	11750 psi	826 kg/cm2	81 N/mm2	

PERMANENT LINEAR CHANGE**			
1500F (816C)	-0.30%		
2000F (1093C)	-0.60%		
2500F (1371C)	-0.70%		

TYPICAL CHEMICAL ANALYSIS (After 1500F (816C))**			
Al2O3	59.61%		
SiO2	28.39%		
Fe2O3	0.93%		
P2O5	5.98%		
Other	5.08%		
Total	100.00%		

THERMAL CONDUCTIVITY**			
600F (316C)	8.5 Btu-in/hr-ft2-F	1.23 W/m K	
1200F (649C)	9.1 Btu-in/hr-ft2-F	1.31 W/m K	
1800F (982C)	9.5 Btu-in/hr-ft2-F	1.37 W/m K	
2400F (1316C)	10.1 Btu-in/hr-ft2-F	1.45 W/m K	

COLD MODULUS OF RUPTURE**			
1500F (816C)	900 psi	63 kg/cm2	6 N/mm2
2000F (1093C)	1750 psi	123 kg/cm2	12 N/mm2
2500F (1371C)	2600 psi	183 kg/cm2	18 N/mm2

HOT MODULUS OF RUPTURE**			
1500F (816C)	2100 psi	148 kg/cm2	14 N/mm2

^{*}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.

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

^{**}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.