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ENGLISH

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FORMULA 6-L

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 - Non-Wetting - Fast Setting - Fast Curing - Longer Working Time

PACKAGING		
Unit Equivalent	Bags: 1	Jugs: 1
Bag Weight*	65 lbs	29.5 kg
Jug Weight*	8 lbs	3.6 kg
Drum Weight*	400 lbs	181.4 kg
Unit Weight*	73 lbs	32.9 kg
Yield / Unit*	0.47 ft ³	0.013 m ³
Units / Ton*	27.55 short	30.37 metric
Board Feet / Unit*	5.7 bd ft	
Wet to Dry Ratio*	11.7% - 12.9%	
Liquid Activator	FORMULA	
Bags Per Pallet	48	
Drums Per Dry Pallet	1	

APPLICATION	
Data based on	Casting

BULK DENSITY**		
As Placed	154 lbs/ft ³	2467 kg/m ³
After 1500F (816C)	147 lbs/ft ³	2355 kg/m ³

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

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

MOLTEN METAL CONTACT	
- Aluminum - Zinc - Iron	

COMPRESSIVE STRENGTH**			
1500F (816C)	3000 psi	211 kg/cm ²	21 N/mm ²
2000F (1093C)	4800 psi	337 kg/cm ²	33 N/mm ²
2500F (1371C)	4000 psi	281 kg/cm ²	28 N/mm ²

PERMANENT LINEAR CHANGE**	
1500F (816C)	-0.34%
2000F (1093C)	-0.40%
2500F (1371C)	-0.30%

TYPICAL CHEMICAL ANALYSIS (After 1500F (816C))**	
Al ₂ O ₃	64.33%
SiO ₂	26.02%
Fe ₂ O ₃	0.92%
P ₂ O ₅	4.97%
Other	3.76%
Total	100.00%

THERMAL CONDUCTIVITY**		
600F (316C)	10.3 Btu-in/hr-ft ² -F	1.48 W/m K
1200F (649C)	9.9 Btu-in/hr-ft ² -F	1.43 W/m K
1800F (982C)	10.0 Btu-in/hr-ft ² -F	1.44 W/m K
2400F (1316C)	10.6 Btu-in/hr-ft ² -F	1.52 W/m K

COLD MODULUS OF RUPTURE**			
1500F (816C)	900 psi	63 kg/cm ²	6 N/mm ²
2400F (1316C)	1450 psi	102 kg/cm ²	10 N/mm ²
2500F (1371C)	1350 psi	95 kg/cm ²	9 N/mm ²

HOT MODULUS OF RUPTURE**			
1500F (816C)	1850 psi	130 kg/cm ²	13 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.