Thermbond®
REFRACTORY SOLUTIONS

UNIFRAX

Technical Data Sheet

Current Date: 4/8/2021

7229

CHARACTERISTICS

Fast Firing
Thermal Shock Resistant
High Strength

DESCRIPTION

Thermbond 7200 Series products are fast-firing, high strength, extremely thermal shock resistant refractory materials ideal for most heat intensive industries.

PACKAGING

Bag Weight: 24.95 kg
Yield / Unit: 0.010 m3
Units / Ton: 40.07 metric
Bags Per Pallet: 48

APPLICATION

To Cast : Mix with WATER
To Pump : Mix with WATER
To Gun : Gun with 7200 Liquid
To Ram : Mix with 7200 Liquid
To Shotcrete : Mix With Water and use 7200 Accelerator at the nozzle

SPECIFICATIONS

Maximum Recommended Service Temp

Hot Face	1648.89 C

		Casting	Gunning	Shortcrete/Pump	Ramming
Bulk Density	As Placed	2643 kg/m3	2419 kg/m3	2515 kg/m3	
	After 1500F (816C)	2547 kg/m3	2339 kg/m3	2403 kg/m3	
Wet To Dry Ratio		5%	5.5%	5%	5.5%
Compressive Strength	1500F (816C)	844 kg/cm2 | 82.8 N/mm2	984 kg/cm2 | 96.5 N/mm2	844 kg/cm2 | 82.8 N/mm2	844 kg/cm2 | 82.8 N/mm2
	1900F (1038C)	984 kg/cm2 | 96.5 N/mm2	1167 kg/cm2 | 114.4 N/mm2	844 kg/cm2 | 82.8 N/mm2	984 kg/cm2 | 96.5 N/mm2
	2200F (1204C)	1266 kg/cm2 | 124.2 N/mm2	1195 kg/cm2 | 117.2 N/mm2	914 kg/cm2 | 89.6 N/mm2	1125 kg/cm2 | 110.3 N/mm2
Permanent Linear Change	1500F (816C)	-0.15%	-0.20%	-0.20%	-0.20%
	1900F (1038C)	-0.30%	-0.30%	-0.30%	-0.30%
	2200F (1204C)	-0.30%	-0.30%	-0.30%	-0.30%
Cold Modulus of Rupture	1500F (816C)	183 kg/cm2 | 17.9 N/mm2	186 kg/cm2 | 18.2 N/mm2	183 kg/cm2 | 17.9 N/mm2	183 kg/cm2 | 17.9 N/mm2
	2000F (1093C)	345 kg/cm2 | 33.8 N/mm2			
	2200F (1204C)	380 kg/cm2 | 37.3 N/mm2	225 kg/cm2 | 22.1 N/mm2	267 kg/cm2 | 26.2 N/mm2	281 kg/cm2 | 27.6 N/mm2
	2500F (1371C)	302 kg/cm2 | 29.6 N/mm2			
Hot Modulus of Rupture	1500F (816C)	352 kg/cm2 | 34.5 N/mm2	281 kg/cm2 | 27.6 N/mm2	316 kg/cm2 | 31.0 N/mm2	281 kg/cm2 | 27.6 N/mm2
Abrasion Resistance	1500F (816C)	< 5 cc loss	< 7 cc loss	< 7 cc loss	< 6 cc loss

TYPICAL CHEMICAL ANALYSIS

Al2O3	50%
SiC	20%
SiO2	27%
Fe2O3	0.70%
P2O5	0%
Other	2.3%
Total	100%

THERMAL CONDUCTIVITY

220F (104C)F (104C)	7.35 W/m K
1500F (816C)F (816C)	4.32 W/m K
2000F (1093C)F (1093C)	4.32 W/m K
2500F (1371C)F (1371C)	4.32 W/m K

**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.

***Application by alternative method may produce somewhat different results.
Measures are approximate and may vary. For mixing partial units, contact your Thermbond Rep for specific wet-to-dry ratios. See Installation Guide for more detailed information.
To assure you are getting the latest data, see our online data sheets at https://www.thermbond.com/technical-data/
Due to the unique nature of the Thermbond binder system, test procedures vary slightly from ASTM.
Documentation of these variations is available upon request.
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