

Product Data

08/02: 8826

Description: Dense Castable

- Features:
- More plastic material than most refractory castables.
 - Ideal for troweling application.
- Uses:
- Preferred for use as a plastering material to repair boiler baffles.
 - Recommended for use in relatively thin sections.

Chemical Analysis: Approximate (As Received)

Silica (SiO ₂)	42.5%
Alumina (Al ₂ O ₃)	41.2%
Iron Oxide (Fe ₂ O ₃)	3.7%
Titania (TiO ₂)	1.9%
Lime (CaO)	8.4%
Magnesia (MgO)	0.1%
Alkalies (Na ₂ O+K ₂ O)	0.3%
Loss on Ignition	1.9%

Physical Data (Typical)

Maximum Service Temperature	2500°F (1371°C)
Material Required	120 lb/ft ³ (1.92 g/cm ³)
Bulk Density	lb/ft ³ (g/cm ³)
After 220°F (105°C)	129 (2.07)
After 2500°F (1260°C)	120 (1.92)
Modulus of Rupture	lb/in. ² (MPa)
After 220°F (105°C)	579 (4.0)
After 1000°F (538°C)	450 (3.1)
After 1500°F (816°C)	225 (1.6)
After 2000°F (1093°C)	310 (2.1)
After 2500°F (1260°C)	725 (5.0)
Cold Crushing Strength	lb/in. ² (MPa)
After 220°F (105°C)	2,400 (16.6)
After 1000°F (538°C)	1,200 (8.3)
After 1500°F (816°C)	1,000 (6.9)
After 2000°F (1093°C)	950 (6.6)
After 2500°F (1260°C)	3,900 (26.9)
Permanent Linear Change	
After 220°F (105°C)	0.0%
After 1000°F (538°C)	-0.1%
After 1500°F (816°C)	-0.1%
After 2000°F (1093°C)	-0.3%
After 2500°F (1260°C)	+1.5%

Note: The test data shown are based on average results on production samples and are subject to normal variation on individual tests. The test data cannot be taken as minimum or maximum values for specification purposes. ASTM test procedures used when applicable.

Product Data

Mixing and Using Information (Water calculated at 8.337 lb/gallon)	55 lb bag	1000 lb bag	1500 lb bag
Water Required—Hand Casting (Weight 14.0%)			
Pounds	7.7	140.0	210.0
Gallons	0.9	16.8	25.2
Liters	3.5	63.4	95.2
For detailed mixing and using instructions, contact your HWI representative or visit www.thinkHWI.com .			
Heatup/Dryout Schedule			
See HWI Dryout Schedule 1—Standard Castables and Gunning Castables.			
Installation Guidelines			
See HWI Installation Guidelines CC-1—Conventional Castables—Standard.			
Shelf Life (Under Proper Storage Conditions)		365 days	