MIZZOU® CASTABLE PLUS



Product Data

HIN HarbisonWalker

12/12: 5976

Depariation	2000°E High Aluming Costable			
	3000°F High-Alumina Castable			
Features:	 Good resistance to numerous slags. Shows expansion rather than shrinkage after heating to elevated temperatures. 			
	 Good resistance to spalling. 	ing to elevated temperatures.		
	 Good resistance to spannig. Installer friendly. 			
Uses:	 Installer mendly. Incinerators. 			
0363.	Boilers.			
	Burner Blocks.			
	 Aluminum furnace upper sidewalls and roofs. 			
	 Forge furnaces and foundry ladles. 			
Chemical A	nalysis: Approximate (Calcined Basis)			
	Silica (SiO ₂)	32.6%		
	Alumina (Al ₂ O ₃)	60.6%		
	Iron Oxide (Fe ₂ O ₃)	1.2%		
	Titania (TiO ₂)	2.2%		
		2.2 %		
	Lime (CaO)	0.3%		
	Magnesia (MgO)			
Dhunda al Da	Alkalies (Na ₂ O+K ₂ O)	0.5%		
Physical Da		200095 (405090)		
	ervice Temperature	3000°F (1650°C)		
Material Re	•	140 lb/ft ³ (2.24 g/cm ³)		
Bulk Density		lb/ft³ (g/cm³)		
	After 220°F (105°C)	142 (2.27)		
	After 1500°F (815°C)	140 (2.24)		
Modulus of		Ib/in. ² (MPa)		
	After 220°F (105°C)	1,100 (7.6)		
	After 1500°F (815°C)	800 (5.5)		
	After 2000°F (1095°C)	600 (4.1) 1 100 (7 c)		
	After 2500°F (1370°C)	1,100 (7.6)		
Cold Crushi		Ib/in. ² (MPa)		
	After 220°F (105°C)	5,500 (37.9)		
	After 1500°F (815°C)	3,500 (24.1)		
	After 2000°F (1095°C)	3,000 (20.7)		
	After 2500°F (1370°C)	4,000 (27.6)		
Permanent	Linear Change	0.40/		
	After 220°F (105°C)	-0.1%		
	After 1500°F (815°C)	-0.2%		
	After 2000°F (1095°C)	-0.2%		
	After 2500°F (1370°C)	+0.9%		
	After 2900°F (1595°C)	+2.8%		

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Thermal Conductivity	Btu ⋅in/hr ⋅ft² ⋅°F (W/m ⋅°C)
At 400°F (205°C)	7.8 (1.12)
At 800°F (425°C)	7.7 (1.11)
At 1200°F (650°C)	7.6 (1.10)
At 1600°F (870°C)	7.5 (1.08)
At 2000°F (1095°C)	7.4 (1.07)
At 2400°F (1315°C)	7.4 (1.07)

Maximum Grain Size 4 Mesh (Tyler)

Less than 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.

55 lb bag	1000 lb bag	1500 lb bag
4.7	86.0	129.0
0.6	10.3	15.5
2.1	39.0	58.5
5.0	90.0	135.0
0.6	10.8	16.2
2.2	40.8	61.2
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