SUPER KAST-SET® PLUS



Product Data 02/05: 6194

Noto: The tee	Maximum Grain Size 4 Mesh (Tyler) data shown are based on average results on production samples and	Less than 2%
Particle Size	Maximum Grain Siza / Mach (Tylor)	Loca than 20/
Dartials Oi-	At 2000°F (1095°C)	6.6 (0.95)
	At 1600°F (870°C)	6.3 (0.91)
	At 1200°F (650°C)	6.2 (0.89)
	At 800°F (425°C)	6.2 (0.89)
	At 400°F (205°C)	6.1 (0.88)
Thermal Cond	uctivity	Btu·in/hr·ft²·°F (W/m·°C)
	After 2700°F (1480°C)	+0.5% to +1.5%
	After 2500°F (1370°C)	-0.6% to +0.5%
	After 2000°F (1095°C)	0% to -0.5%
	After 1500°F (815°C)	0% to -0.5%
	After 220°F (105°C)	None
Permanent Lir	, ,	,
	After 2500°F (1370°C)	2,300 to 3,600 (15.9 to 24.8)
	After 2000°F (1095°C)	1,000 to 1,500 (6.9 to 10.3)
	After 1500°F (815°C)	1,600 to 2,400 (11.0 to 16.5)
	After 220°F (105°C)	2,200 to 3,200 (15.2 to 22.1)
Cold Crushing	, ,	Ib/in.² (MPa)
	After 2500°F (1370°C)	800 to 1,400 (5.5 to 9.7)
	After 2000°F (1095°C)	200 to 400 (1.4 to 2.8)
	After 1500°F (815°C)	300 to 500 (2.1 to 3.4)
TIOGUIUS OI INC	After 220°F (105°C)	500 to 800 (3.8 to 5.5)
Modulus of Ru	` '	Ib/in. ² (MPa)
	After 1500°F (815°C)	120 to 127 (1.92 to 2.04)
Jain Dollony	After 220°F (105°C)	125 to 132 (2.00 to 2.12)
Bulk Density		lb/ft³ (g/cm³)
Material Requ	· · · · · · · · · · · · · · · · · · ·	124 lb/ft³ (1.99 g/cm³)
•	rice Temperature	2800°F (1540°C)
Physical Data	,	***
	Alkalies (Na ₂ O+K ₂ O)	0.5% to 1.3%
	Magnesia (MgO)	0.1% to 0.4%
	Lime (CaO)	3.7% to 5.0%
	Titania (TiO ₂)	1.8% to 2.8%
	Iron Oxide (Fe ₂ O ₃)	1.2% to 2.0%
	Alumina (Al ₂ O ₃)	45.0% to 49.0%
	Silica (SiO ₂)	40.0% to 44.0%
	ysis: Approximate (Calcined Basis)	
Jses:	 Pouring special shapes and complete monolithic linings. 	
	Good permanent volume characteristics.High strength to produce stable linings for long service.	
eatures:		

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.

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Product Data

Mixing and Using Information (Water calculated at 8.337 lb/gallon)	55 lb bag	1000 lb bag	1500 lb bag
Water Required—Vibration Casting (Weight 12.0%)			
Pounds	6.6	120.0	180.0
Gallons	8.0	14.4	21.6
Liters	3.0	54.4	81.6
Water Required—Hand Casting (Weight 12.8%)			
Pounds	7.0	128.0	192.0
Gallons	8.0	15.4	23.0
Liters	3.2	58.0	87.0
Working Time	20 minutes		
For detailed mixing and using instructions, contact your HWI representative	ve or visit www.thinkHWI.	com.	
Heatup/Dryout Schedule			
See HWI Dryout Schedule 2—PLUS Rated Castables and Gunning Casta	ables.		
Installation Guidelines			
See HWI Installation Guidelines CC-1—Conventional Castables—Standa	rd.		
Shelf Life (Under Proper Storage Conditions)	365 days		