

VERSAFLOW® 57A PLUS



Product Data

8/09: 5690

Description: Andalusite-based Low Cement High-Alumina Castable

Features:

- Can be pumped and shotcreted.
- Outstanding hot strength.

Uses:

- Ideal for cyclical temperature applications where thermal shock resistance is needed.

Chemical Analysis: Approximate (Calcined Basis)

Silica (SiO ₂)	35.6%
Alumina (Al ₂ O ₃)	60.9%
Iron Oxide (Fe ₂ O ₃)	0.7%
Titania (TiO ₂)	0.6%
Lime (CaO)	1.8%
Magnesia (MgO)	0.1%
Alkali (Na ₂ O)	0.3%

Physical Data (Typical)	Pumped
Maximum Service Temperature	3000°F (1650°C)
Material Required	156 lb/ft ³ (2.50 g/cm ³)
Bulk Density	lb/ft ³ (g/cm ³)
After 220°F (105°C)	160 (2.56)
After 1500°F (815°C)	156 (2.50)
After 2500°F (1371°C)	154 (2.47)
Modulus of Rupture	lb/in. ² (MPa)
After 220°F (105°C)	2,200 (15.2)
After 1500°F (815°C)	1,400 (9.7)
After 2500°F (1371°C)	1,600 (11.0)
Hot Modulus of Rupture	lb/in. ² (MPa)
At 1500°F (815°C)	2,400 (16.6)
At 2500°F (1371°C)	1,500 (10.3)
Cold Crushing Strength	lb/in. ² (MPa)
After 220°F (105°C)	11,500 (79.3)
After 1500°F (815°C)	12,900 (89.0)
After 2500°F (1371°C)	11,900 (82.1)
Permanent Linear Change	
After 1500°F (815°C)	0.0%
After 2500°F (1371°C)	0.0%
Apparent Porosity	
After 220°F (105°C)	14.0%
After 1500°F (815°C)	18.0%
After 2500°F (1371°C)	18.0%

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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Mixing and Using Information (Water calculated at 8.337 lb/gallon)	55 lb bag	1000 lb bag	1500 lb bag
Water Required—Pumping/Shotcreting (Weight 6.5%)			
Pounds	3.6	65.0	97.5
Gallons	0.4	7.8	11.7
Liters	1.6	29.5	44.2
Water Required—Vibration Casting (Weight 6.0%)			
Pounds	3.3	60.0	90.0
Gallons	0.4	7.2	10.8
Liters	1.5	27.2	40.8
For detailed mixing and using instructions, contact your ANH representative or visit www.anhrefractories.com .			
Heatup/Dryout Schedule			
See ANH Dryout Schedule 2—PLUS Rated Castables and Gunning Castables.			
Installation Guidelines			
See ANH Installation Guidelines LCC-3—Low Cement Castables—Shotcrettable Standard.			
Shelf Life (Under Proper Storage Conditions)		120 days	