

# SATANITE



## Product Data

05/19: 6106

Description: Dry, Heat-Set, High-Alumina Mortar

Uses: 

- Can be used to lay dense 50%, 60%, and 70% alumina brick, as well as 2800°F (1538°C) and 3000°F (1650°C) rated insulating firebrick.

### Chemical Analysis: Approximate (Calcined Basis)

Silica (SiO <sub>2</sub> )	35.7%
Alumina (Al <sub>2</sub> O <sub>3</sub> )	59.4%
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	1.2%
Titania (TiO <sub>2</sub> )	2.3%
Lime (CaO)	0.1%
Magnesia (MgO)	0.3%
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O)	1.0%

### Physical Data (Typical)

Maximum Service Temperature	3200°F (1760°C)
Material Required to Lay 1,000 9-in. × 4 ½-in. × 2 ½-in. (229 mm × 114 mm × 63 mm) Brick, Dipping Consistency	lb (kg) 275 (125)

### Refractoriness Test

3100°F (1705°C) Test Temperature No softening or flowing

### Particle Size

Maximum Grain Size 20 Mesh (Tyler) (0.83 mm opening) Less than 0.5%  
Maximum Grain Size 35 Mesh (Tyler) (0.42 mm opening) Less than 5.0%

### Water Retention

Minimum of 4 minutes

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.

Mixing and Using Information (Water calculated at 8.337 lb/gallon)	45 lb bag	1000 lb bag	1500 lb bag
Water Required—Troweling (Weight 29.1%)			
Pounds	13.1	291.0	436.5
Gallons	1.6	34.9	52.4
Liters	5.9	131.9	197.8
Water Required—Dipping (Weight 45.8%)			
Pounds	20.6	458.0	687.0
Gallons	2.5	54.9	82.4
Liters	9.4	207.5	311.3

For detailed mixing and using instructions, contact your HWI representative or visit [www.thinkHWI.com](http://www.thinkHWI.com).

### Heatup/Dryout Schedule

Not applicable.

### Installation Guidelines

See HWI Installation Guidelines M-2—Dry Mortars.

Shelf Life (Under Proper Storage Conditions) 365 days