

PRODUCT DATA

ALSEY PILOT SUPER DUTY MORTAR

ALSEY PILOT 3000-T Air-Set Refractory Mortar—Super Duty

Description:

Wet, air-setting, super duty 3000°F refractory mortar formulated to be used with our JET D.P. high duty firebrick & PILOT D.P. super duty firebrick.

Sizes:

- 15lb plastic pail {2A2015}
- 55lb plastic pail {2A2050}

Also available in Dipping Consistency

This product was formerly known as ALSEY 3000 Super Duty Mortar.

TYPICAL TEST DATA -- PHYSICAL PROPERTIES

ASTM C-24	
P.C.E.	34
Temperature Equivalent (melting), °F	3205
Service Temperature (max. recommended), °F.....	3000

ASTM-C-20 after 2350°F	
Apparent Porosity, %	42.1
Apparent Specific Gravity g/cc	2.84
Bulk Density (wet) lb/ft ³	129.0
Bulk Density (fired) lb/ft ³	102.7

ASTM C-198	
Bonding Strength, psi	
after 230°F	653
after 2910°F	1265

ASTM C-199—Super Duty
 Pier Test at 2910°F
 No flow from joints. No cracks or shrinkage.

TYPICAL CHEMICAL ANALYSIS, Wt. % (calcined basis)

Silica (SiO ₂)	48.39
Aluminum Oxide (Al ₂ O ₃)	47.21
Titanium Dioxide (TiO ₂).....	1.28
Iron Oxide (Fe ₂ O ₃)	0.55
Magnesium Oxide (MgO).....	0.12
Calcium Oxide (CaO)	0.02
Other Oxides.....	2.43

Total..... 100.00

Loss on Ignition..... 3.03
 (As received basis; not included in calcined total.)

An MSDS is available upon request

Contact:

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PRODUCT DATA

ALSEY PILOT SUPER DUTY MORTAR

ALSEY Pilot 3000-Dry Air-Set Refractory Mortar—Super Duty

Description:

Dry, air-setting, super duty 3000°F refractory mortar formulated to be used with our JET D.P. high duty firebrick & PILOT D.P. super duty firebrick.

Sizes:

55lb bag (2A3050)

Application:

	Water	Dry Mortar
Troweling	1.3-1.5 gallons	55 lbs
Dipping	1.5-1.65 gallons	55 lbs

*Use lower limits of water when using immediately. Use upper limits of water when mixing for future use. Some re-tempering may be required.

TYPICAL TEST DATA -- PHYSICAL PROPERTIES

ASTM C-24
 P.C.E. 36
 Temperature Equivalent (melting), °F 3279
 Service Temperature (max. recommended), °F..... 3000

ASTM C-20 after 2350°F
 Apparent Porosity, % 42.1
 Apparent Specific Gravity, g/cc 2.84
 Bulk Density (fired), lb/ft³ 102.7

ASTM C-198
 Bonding Strength, psi
 after 230°F 629
 after 2910°F 1213

ASTM C-199—Super Duty
 Pier Test at 2910°F
 No flow from joints. No cracks or shrinkage.

TYPICAL CHEMICAL ANALYSIS, Wt. % (calcined basis)

Silica (SiO₂) 49.22
 Aluminum Oxide (Al₂O₃) 46.46
 Titanium Dioxide (TiO₂)..... 1.59
 Iron Oxide (Fe₂O₃) 0.53
 Magnesium Oxide (MgO)..... 0.15
 Calcium Oxide (CaO) 0.08
 Other Oxides 1.97

Total 100.00

Loss on Ignition 4.4
 (As received basis; not included in calcined total.)

An MSDS is available upon request

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