

ALSEY DRY MILLED FIRECLAY

Dry Milled Fireclay is available in 20 mesh and is packaged in 50 lb. bags.

200 to 400 lbs. of Dry Milled Fireclay is required to lay up one thousand 9x4½x2½" straight firebrick.

- Trowel Joints – use 14 quarts of water per 100 lbs. of fireclay.
- Dipped Joints – use 18.5 quarts of water per 100 lbs. of fireclay. For best results, mix fireclay and water one day prior to use and let it sit covered.

Dry Milled Fireclay is "Heat Setting" and depends upon high temperature to develop a ceramic bond; these temperatures are not achieved in fireplaces. For this reason, brick masons typically add 25% Portland cement to the Dry Milled Fireclay. Please keep in mind the addition of Portland cement reduces the service temperature of this product well below temperatures achieved in fireplaces and thus does not satisfy building code requirements.

NOTE: Job-site prepared fireclay mixes containing Portland and dry milled fireclay do not meet national or state building codes. They do not resist the high temperatures and the temperature cycling in this application, nor do they possess the necessary acid resistance for this service. As a result, we have developed Alsey Air-Set Refractory Fireplace Mortar and FLUE-SET Non-Water Soluble Refractory Mortar to meet these requirements. Product information sheets are available upon request.

Typical Chemical Analysis, wt.% (dry basis)

Silica (SiO ₂)	57.80
Aluminum Oxide (Al ₂ O ₃).....	36.30
Titanium Dioxide (TiO ₂).....	1.90
Iron Oxide (Fe ₂ O ₃)	1.80
Potassium Oxide (K ₂ O).....	1.08
Magnesium Oxide (MgO).....	0.41
Calcium Oxide (CaO)	0.40
Sodium Oxide (Na ₂ O)	0.09
Total	99.78
Loss on Ignition, 1000°C	11.40
P.C.E. ASTM C-24	31½
Temperature Equivalent (melting)	3090°F
Service Temperature (max. recommended)	2700°F