



KAOLIN - TYPICAL PROPERTIES

KENTUCKY-TENNESSEE CLAY COMPANY

SUBSIDIARY OF HECLA MINING COMPANY

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6 TILE™

6 Tile clay is a selectively mined, airfloated kaolin with unusually bright firing properties and a high degree of whiteness, plasticity and translucence. Its high green strength offers superior performance as a pressing or jiggering clay.

TYPICAL PHYSICAL PROPERTIES

Particle Size (%<2 microns)	54-65
Median Particle Size (microns)	1.0-1.3
325-Mesh Screen Residue (% max.)	1.0
pH, (20% solids)	6.5-7.5
Strength (dry M.O.R.) (psi), 100% clay	900 min.*
Cone 10 Absorption (%)	5-8
Moisture (% max.)	3.0
Color (fired) (Cone 8) 100% clay	
- brightness (% MgO)	80.3
- whiteness index	22.9
Color (fired) (Cone 8) 50/50 clay/nepheline syenite	
- brightness (% MgO)	60.8
- whiteness index	25.9
C.E.C. (meq./100 g.)	8.5 min.

*Strength test run by DBK Test Method. Procedures and other data available upon request.

TYPICAL CHEMICAL ANALYSIS

Silicon Dioxide	45.5%	Magnesium Oxide	.5%
Aluminum Oxide	38.1%	Sodium Oxide	.04%
Iron Oxide	.3%	Loss on Ignition	
Titanium Dioxide	1.4%	at 950°C	13.8%
Calcium Oxide	.4%		

Data presented are representative of recent testing conducted under K-T standard test procedures and are offered in good faith as being typical of normal production.

WARNING
KAOLIN CONTAINS FREE SILICA.
DO NOT BREATHE DUST

Prolonged Inhalation May Cause Delayed Lung Injury (Silicosis). Follow OSHA Safety & Health Standards for Crystalline Silica (Quartz). Suspect Cancer Hazard - There is Limited Evidence That Crystalline Silica May Cause Cancer In Humans.