

FIRECLAY, GOLD ART

SiO ₂	56.72%
Al ₂ O ₃	27.30
Fe ₂ O ₃	1.42
TiO ₂	1.75
MgO	0.42
CaO	0.22
K ₂ O	0.16
SO ₃	0.12
L.O.I.	10.03
P.C.E.	29.0

Geographical Source:

Ohio

Geological Source:

Sedimentary deposits in deep fresh water.

Ancient swamps metamorphosed into layers of coal and clay.

Characteristics:

Fire clays have a coarse particle size and a high resistance to heat with a minimum firing range of 2700°F. They are the backbone of stoneware claybodies.

Fireclays contain at least three primary minerals:

1. Up to 50% coarse grained crystalline quartz or sandstone
2. 15% or more fine-grained kaolinite or livesite, contributing to plasticity.
3. 30% or more hydrous mica

Gold art is a good all-around clay, but contains sulfur.

Total Cone 9 Shrinkage Rate: 15%