

NEPHELINE SYENITE

SiO ₂	60.20%
Al ₂ O ₃	23.50
Fe ₂ O ₃	0.08
CaO	0.35
MgO	0.03
K ₂ O	4.80
Na ₂ O	10.60
L.O.I.	0.44
P.C.E.	Cone 3-6

Geographical Source:

Nephton, Blue Mountain, Ontario, Canada

Geological Source:

Medium-grained, low-silica, igneous, feldspathic rock formation (Syenites), 1.3 billion years old (Precambrian)

Characteristics:

Nepheline Syenite is a first choice main flux for glazes. Nepheline Syenite, while partly composed of chemical silica, does not contain free silica and therefore does not pose the risk of silicosis as in other ceramic materials. Nepheline Syenite can produce a white-orange lustre, stony matt puddled glass textures and claybody discoloration that contrasts with the glossy even-textured surfaces produced by feldspars. Nepheline Syenite will cause crawling if applied thickly. It does not remain evenly suspended in water. This is a stable product and exists in great quantities.