



# Nepheline Syenite

## Ceramic Grade

AP Cer is our ceramic-grade nepheline syenite product, which are naturally occurring, quartz-free, alkaline alumina silicate.

In ceramic application, nepheline syenite primarily serves as an excellent fluxing agent and has the following functions:

- significantly lowers melting point, and speeds up firing process
- increases body vitrification over a wide range of firing temperature
- improves absorption and moisture expansion improves mechanical strength
- increases thermal expansion and reduces variations of thermal expansion during production

Chemical Analysis	AP Cer
SiO <sub>2</sub>	~ 61.0%
Al <sub>2</sub> O <sub>3</sub>	~ 21.0%
Fe <sub>2</sub> O <sub>3</sub>	~ 0.11%
TiO <sub>2</sub>	~ 0.05%
Na <sub>2</sub> O	~ 10.0%
K <sub>2</sub> O	~ 6.00%
CaO	~ 1.00%
MgO	~ 0.05%
L.O.I	~ 2.00%

Particle Size Distribution	
+ 45 µm (325 Mesh)	≤ 5.0%
D50	~ 15.0µm
Moisture	≤ 0.3%
Fused Whiteness	~ 46
Melting Point	~ 1200°C