

Food Grade Bentonite

Revised 06/12/2020

## VOLCLAY® KWK FOOD GRADE

General Description

Low dust granular sodium bentonite with an average particle size between 20 and

70 mesh.

Functional Use

Used in the "fining" step of processing wine, juice, cider, and vinegar for the removal

of suspended solids. Particularly useful in preventing cloudiness and removing

heat-sensitive proteins.

**Purity** Hydrous aluminum silicate comprised principally of the clay mineral montmorillonite.

Volclay KWK Food Grade meets all requirements of the Food Chemical Codex.

Chemical Formula

Dioctahedral smectite, an expanding layer silicate:

 $(Na,Ca)_{0.33} (AI_{1.67}Mg_{0.33})Si_4O_{10}(OH)_2 \cdot nH_2O$ 

Elemental Composition

Typical analysis - moisture free.

SiO<sub>2</sub> 63.02 % 21.08 %  $Al_2O_3$  $Fe_2O_3$ 3.25 % FeO 0.35 % 2.67 % MgO Na<sub>2</sub>O 2.57 % 0.65 % CaO Trace 0.72 %

Metals Analysis Typical analysis- Method: NBN EN 15510 ICP AES

Results in parts per million (ppm)

As 0.16 ppm Ва 1.08 ppm Cd 0.006 ppm Cu 0.27 ppm <0.02 ppm Hg Ni 0.03 ppm Ρ 2.99 ppm Pb 0.52 ppm Se 0.05 ppm Ag <0.005 ppm Zn 1.2 ppm

**LOI** 5.64 %





**Moisture** Maximum 12% as shipped.

Maximum 1.0% retained on 16 mesh. **Dry Particle** Size

Maximum 35.0% retained on 20 mesh.

Maximum 3.5% passing 70 mesh.

**Wet Particle** Minimum 94% finer than 200 mesh (74 microns).

Size Minimum 92% finer than 325 mesh (44 microns).

8.0 - 10.5 @ 5% solids. pН

Free Swell Minimum 20 mls per 2 grams clay.

**Packaging** 50 or 100 pound multi-wall paper bags, or bulk.