

**Wine & Juice Grade Sodium Bentonite
Fining Agent**

Revised 08/13/01

VOLCLAY® KWK KRYSTAL KLEAR

General Description	Fine granular sodium bentonite with an average dry particle size ranging between 20 and 70 mesh. Superior adsorption and clarifying characteristics.			
Functional Use	Used for the clarification of wine, juice, cider and vinegar. Krystal Klear KWK efficiently removes suspended colloidal particles. This high-purity bentonite has a high montmorillonite content, large surface area, exhibits rapid cold-water dispersion and contains low grit. Krystal Klear KWK prevents cloudiness while removing heat-sensitive proteins.			
Purity	Hydrous aluminum silicate comprised principally of the clay mineral montmorillonite. Krystal Klear KWK meets all requirements for the Food Chemicals Codex.			
Chemical Formula	Diocahedral smectite, an expanding layer silicate: $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$			
Elemental Composition	Typical analysis – moisture free.			
	SiO ₂	64.10%	LOI	5.68%
	Al ₂ O ₃	19.89%	CaO	0.65%
	Fe ₂ O ₃	3.25%	Na ₂ O	2.47%
	FeO	0.35%	MgO	2.65%
Moisture	Maximum 12% as shipped.			
Dry Particle Size	Maximum 1.0% retained on 16 mesh. Maximum 35.0% retained on 20 mesh. Maximum 3.5% passing 70 mesh.			
Wet Particle Size	Minimum 94% passing 200 mesh (74 microns). Minimum 92% passing 325 mesh (44 microns).			
Free Swell	Minimum 20 mls per 2 grams			
pH	8.5 - 10.5 @ 5% solids			
Packaging	50 or 100 pound multi-wall paper bags, bulk bags, or bulk.			

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