



# Alum Crystal

Potassium alum crystal is a pure product made without the addition of chemicals, fragrances, oils or alcohol. The chemical formula for potassium alum is  $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$ . Potassium alum is a colourless substance that forms octahedral or cubic crystals. Bauxite is the ore from which alum is drawn. It is formed by the rapid weathering of granitic rocks in warm, humid climates and can be purified and converted directly into alum.

Potassium alum is soluble in seven times its weight of water at room temperature and is very soluble in hot water. When crystalline potassium alum is heated, some of the water of hydration becomes chemically separated, and the partly dehydrated salt dissolves in this water, so that the alum appears to melt at about 90 degrees C (approx. 392 degrees F), potassium alum swells up, loses all water, and becomes a basic salt called burn alum. Potassium alum has a density of 1.725.

Alum's are used for a variety of uses including as a powerful astringent.

If an aluminum compound, such as aluminum chlorohydrate or aluminum zirconium, which is very soluble, is used as an antiperspirant, that compound is readily absorbed. Once in the body, the aluminum portion of the molecule ionizes, forming free or radical aluminum ( $Al^{+++}$ ). This passes freely across cell membranes, and forms a physical plug, that when dissolved is selectively absorbed by the liver, kidney, brain, cartilage and bone marrow. It is this concentration of aluminum that has been the source of concern in the medical community and has prompted the research being done on ALZHEIMER'S DISEASE and BREAST CANCER victims.

Potassium alum molecules have a negative ionic charge, making it unable to pass through the cell wall. **THEY ARE NOT ABSORBED.** This is why these deodorants are safe to use and will not cause high levels of ALUMINUM in your system. ALUM and ALUMINUM are two different substances, with distinct chemical signatures. They possess different chemical properties which create different chemical attributes.

We hope this information helps to dispel some of the misunderstandings about ALUM and puts your mind at ease about the safety of Potassium Alum. The ancients would not go anywhere without an Alum Crystal wrapped in their cloth. The Alum Crystal is a must for any First Aid Kit!

## Uses for Potassium Alum Crystals

Natural potassium alum mineral salts are in no way comparable with other chemical deodorants such as aluminum chlorohydrate. When rubbed on the skin, a microscopic antibacterial film is left that will not absorb into the skin. These natural anti-biotics have been used in India for 1000's of years.

### Other uses:

- As an astringent for cuts as in (shaving) as it acts as a natural blood coagulant.
- As a skin tightener (based on its ability to shrink the skin)
- As an alkalizer since alum mineral salts are a highly alkaline substance.
- Pimples, tinea, infections, burns, bites, skin inflammation, ulcers & cuts.
- Used in India in cases of severe diarrhoea, 1 gram in water (not recommended)



**Jay d. Mulder** BHlthSc  
Dip. Nutr. Dip. Herb. Cert. Ayurveda

Member, Australian Traditional Medicine  
Society & Australasian Ayurvedic  
Practitioner Association

**Eumundi Medicine Man /  
The Ayurvedic Herb Shed**  
2 Hill St. Palmwoods QLD 4555  
9am – 5pm Monday to Friday  
Eumundi Markets Saturday ONLY  
07 5478 8893 or 0411 297 448