

Aluminium sulphate

❖ **Aluminium sulfate is mainly use as a flocculating agent in the purification of drinking water and waste water treatment plants, and also in paper manufacturing. It is widely use in the concrete technology as accelerating agent.**

Nature: Aluminium sulfate, is a chemical compound with the formula $\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$

CAS Number 7784-31-8

Specification:

Form	:	Solid, Lumps & powder
Appearance	:	White crystalline solid to free flowing powder
pH value (0.5:10)	:	Min. 2.8
Solubility	:	Completely soluble in hot water.
Al as Al_2O_3	:	Min. 16 %
Insoluble matter (In water)	:	Max. 0.8 %
Iron content as Fe	:	Below 50 ppm

Properties: Aluminium sulfate, alternatively spelt either **aluminum** or **sulphate**, is a chemical compound with the formula $\text{Al}_2(\text{SO}_4)_3$. Aluminium sulfate is sometimes referred to as a type of alum.

Application: Sizing paper, lakes, mordent for drying, foaming agent in fire foams for leather and clarifying agent for fat and oil. Aluminium sulfate is used in water purification and as a mordant in dyeing and printing textiles. In water purification, it causes impurities to coagulate which are removed as the particulate settles to the bottom of the container or more easily filtered. This process is called coagulation or flocculation. When dissolved in a large amount of neutral or slightly alkaline water, aluminium sulfate produces a gelatinous precipitate of aluminium hydroxide, $\text{Al}(\text{OH})_3$. In dyeing and printing cloth, the gelatinous precipitate helps the dye adhere to the clothing fibers by rendering the pigment insoluble.

In construction industry it is used as waterproofing agent and accelerator in concrete. Another use is a foaming agent in fire fighting foam.

Storage: Product is acidic in nature. Therefore it must be stored in its original sealed packaging. If stored properly in its original sealed packaging the shelf life is at least 12 months.

Packing: Aluminium sulphate is available in 25 kg & 50 kg HDPE bag. Alternative packing sizes may be available upon request.