

## ALUMINIUM SULPHATE

Product form: Powder / Granular | Grade: Technical / Industrial Grade | Packaging: 25 kg / sack

## 1. Product Identification

| Parameter       | Information                                            |
|-----------------|--------------------------------------------------------|
| Product Name    | Aluminium Sulphate                                     |
| Common Name     | Aluminium Sulfate / Alum                               |
| CAS Number      | 10043-01-3                                             |
| General Formula | $\text{Al}_2(\text{SO}_4)_3 \cdot x\text{H}_2\text{O}$ |
| Appearance      | White to off-white powder / granular material          |
| Grade           | Technical / Industrial Grade                           |
| Packaging       | 25 kg / sack                                           |

## 2. Product Description

Aluminium Sulphate is an inorganic aluminium salt widely used in industrial processes, particularly as a coagulant in water and wastewater treatment. When applied under suitable process conditions, it promotes aggregation of fine suspended particles so they can be removed more effectively by sedimentation and filtration. It is also used in pulp and paper, textile, and other industrial processing applications.

## 3. Typical Technical Characteristics

| Parameter                                   | Typical / General Description                |
|---------------------------------------------|----------------------------------------------|
| Appearance                                  | White to off-white powder or granular        |
| Solubility                                  | Soluble in water                             |
| Chemical nature                             | Inorganic aluminium salt                     |
| Grade                                       | Technical / Industrial Grade                 |
| Particle form                               | Powder / granular; may vary by supplier      |
| $\text{Al}_2\text{O}_3$ , Fe and insolubles | Refer to the actual supplier TDS / batch COA |

**Important:** Numerical composition limits are intentionally not stated as certified specifications in this document because they can vary by manufacturer, hydration state, grade, and production batch. For purchasing specifications, use the principal/manufacturer TDS and the COA for the supplied batch.

## 4. Main Applications

| Application          | General Function                                                        |
|----------------------|-------------------------------------------------------------------------|
| Water Treatment      | Coagulant for clarification and removal of suspended matter.            |
| Wastewater Treatment | Supports coagulation/flocculation prior to sedimentation or filtration. |
| Pulp & Paper         | Used in selected papermaking and process-water applications.            |

| Application                     | General Function                                                |
|---------------------------------|-----------------------------------------------------------------|
| Textile & Industrial Processing | Used in selected process treatment and industrial formulations. |

## 5. Storage & Handling

Store in a cool, dry, well-ventilated area in the original tightly closed packaging. Protect from moisture and incompatible materials. Avoid generating or breathing dust and avoid contact with eyes and skin. Use suitable workplace controls and personal protective equipment based on the applicable SDS and site risk assessment.

## 6. Packaging & Supply

Standard commercial presentation: 25 kg sack. Packaging configuration, origin, particle form and technical specification may vary according to the selected principal and customer requirement.

## 7. Documentation

Batch-specific Certificate of Analysis (COA) and manufacturer/principal Safety Data Sheet (SDS/MSDS) should be requested for the actual material supplied when required for quality, regulatory, transport, or customer approval purposes.

### DOCUMENT NOTE

This TDS is a general product information sheet prepared for Soematra Kimia's catalogue and commercial reference. It is not a batch-specific certificate and does not replace the manufacturer/principal technical specification, COA, SDS, or customer qualification requirements.