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TECHNICAL DATA SHEET
ANHYDROUS ALUMINIUM CHLORIDE GRANULES (2 -5MM)

Product Identification

Product Name : ANHYDROUS ALUMINIUM CHLORIDE GRANULES (2 -5MM)
Chemical Name : Anhydrous Aluminium Chloride
Synonyms : Aluminum Chloride, Aluminium Trichloride, $AlCl_3$
CAS No : 7446-70-0

Product Description

Anhydrous Aluminium Chloride is a highly reactive, moisture-sensitive inorganic compound primarily used as a Lewis acid catalyst in numerous chemical reactions. It is widely used in the manufacture of pharmaceuticals, dyes, pigments, agrochemicals, fragrances, polymers, and petrochemical intermediates.

Specifications

Sr. No	Parameters	Test Method	Unit	Specifications
01	Physical Appearance	IS -6614: 1972	-	Off White to Grey Granules
02	Purity (as AlCl3)	IS -6614: 1972	%	Min. 99.0
03	Iron (as Fe)	IS -6614: 1972	ppm	Max. 20.0
04	Water Insoluble	IS -6614: 1972	ppm	Max. 500
05	Free Aluminium (as Al)	Reduction Analysis	ppm	Max. 50.0
06	Particle Size	-	mm	2 - 5

Industrial Applications

- Used as a Lewis acid catalyst in Friedel-Crafts alkylation and acylation reactions.
- Used in the manufacture of pharmaceutical intermediates and Active Pharmaceutical Ingredients (APIs).
- Used in the petrochemical industry for hydrocarbon alkylation and isomerization processes.
- Used in the production of agrochemical intermediates, including pesticides and herbicides.
- Used in the manufacture of dyes, pigments, and dye intermediates.
- Used in the synthesis of fragrances, perfumes, and flavour intermediates.
- Used as a catalyst in the production of synthetic resins, polymers, and plastic additives.
- Used in the manufacture of specialty and fine chemicals.
- Used in the production of rubber chemicals and elastomer intermediates.
- Used as a catalyst and reagent in chemical research, laboratory synthesis, and industrial R&D.

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Storage

- Store in a cool, dry, and well-ventilated area.
- Keep containers tightly sealed to prevent moisture absorption.
- Protect from humidity, water, and direct sunlight.
- Store in corrosion-resistant, moisture-proof containers.
- Keep away from incompatible materials such as water, strong bases, oxidizing agents, alcohols, and amines.
- Maintain storage temperatures below 30°C where practical.
- Ensure the storage area is equipped with appropriate spill containment and emergency facilities.

Handling

- Handle only in well-ventilated areas or under local exhaust ventilation.
- Avoid contact with skin, eyes, and clothing.
- Do not inhale dust, fumes, or vapors generated by contact with moisture.
- Wear appropriate PPE, including chemical-resistant gloves, safety goggles, face shield, and protective clothing.
- Use only clean, dry tools and equipment to prevent reaction with moisture.
- Do not add water directly to the product, as it reacts vigorously and releases hydrogen chloride (HCl) gas.
- Wash hands thoroughly after handling and before eating, drinking, or smoking.
- Keep containers tightly closed when not in use to minimize exposure to atmospheric moisture.

Packing

- 25 kg HDPE/PP woven bags with Inner Liner

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