

White Alum Lump (Ammonia Alum), Packaging Type: Drum/Barrel

by:Almorea Industries, Ahmedabad

Product Specifications

Purity

98.9 %

Packaging Type

Drum/Barrel

Usage/Application

Purifying and Dyeing

Purposes

Amar Alum & Allied Chemicals Pvt. Ltd.

Purifying Water. Empowering Lives.

COMPANY PROFILE

About Us

Established in 1991 by my late father, Shri Nand Lal Garg, Amar Alum has risen to become the foremost manufacturer of Ferric Alum (Alumino Ferric, compliant with IS 299) in all grades 1, 2, 3, 4, and 5, distinguished by our prestigious BIS License.

With a substantial annual production capacity exceeding 70,000 MT, we proudly claim the position of the country's largest manufacturer. With over 30 years of experience in the industry, our company enjoys an unblemished reputation in the market, assuring a reliable supply of raw materials, even in the face of challenging circumstances, making us a dependable partner throughout the year.

Amar Alum, a family-run establishment, is led by the wise stewardship of Mrs. Poonam Garg, with Karan Garg, a Civil Engineering graduate from BITS Pilani, and Aditi Sharma Garg, who holds a Master's degree from RWTH Aachen University in Germany, combining expertise in both Management and Engineering.

PRODUCT BROCHURE

Exceptional Qualities of Ferric Alum

Ferric Alum (Alumino Ferric) is a dual coagulant, combining the advantages of Aluminum Sulphate and Iron Sulphate. This unique blend makes it a superior and cost-effective choice compared to other coagulants such as Non Ferric Alum and PAC.

- Notably, Ferric Alum is approximately 20% more affordable than Non-Ferric Alum/PAC, making it a cost-efficient option.
- Its effectiveness in water treatment, purity, and reduced Alum consumption set it apart.

Quality Manufacturing

High levels of Insolubles can lead to numerous issues, including:

- Choking of pumps and pipelines.
- Frequent cleaning of solution tanks.

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 Reduced efficiency in water treatment, potentially leading to ineffective results.

We strictly employ a Hot-Process method supported by a Boiler to manufacture Alum with an Insoluble Matter content of less than 0.4%.

The Vital Role of Ferric Sulphate in Water Treatment

Ferric Sulphate plays a pivotal role, making the Alumina Ferric manufactured by us a superior coagulant compared to NFA/PAC. Here's why:

- Ferric Sulphate effectively operates over a wide pH range (4.0 to 11.0), allowing for both colour removal in raw water at low pH values and the removal of heavy metals at high pH values.
- At elevated temperatures, the hydrolysis rate of Ferric Sulphate increases, enhancing its coagulation efficiency, especially in subtropical/temperate regions.
- In lower-temperature conditions, the use of Ferric Sulphate leads to improved turbidity removal, resulting in more efficient treatment of natural organic matter.
- Ferric Sulphate exhibits higher binding ability and lower charge density than aluminum sulphate under similar conditions, highlighting its exceptional coagulation properties.
- Its rapid hydrolysis in water forms Ferric Hydroxide (Fe(OH)3), which readily
 precipitates and is minimally soluble across a wide pH range (5 to 9) and
 various untreated water temperatures. This unique attribute makes Ferric
 Sulphate a sought-after coagulant in 'Alumino Ferric' or Aluminium Iron (III)
 Sulphate.
- Being heavier than Al, Fe flocs reduces coagulant dosages and dosing time speeding up the treatment time as well.

For any inquiries or to experience the superior quality of our Ferric Alum, please don't hesitate to contact us. We look forward to serving your needs with dedication and expertise.

Karan Nand Lal Garg Mg. Director +91 9666 82 4560 Aditi Sharma Garg CMO +91 9557 92 4560

Requirement for Alumino-Ferric

TECHNICAL DATA SHEET

As per the IS 299:2012

White to off-White 0.40% 0.70%	
0.70%	
16%	
2.7	
0.50%	
<8	
<4	
0.4	
<20	
20	
2	
4	
Compounds(C ₆ H ₆ O) 0.4	
80	

Keep Moving Together

YAAMI TRADING COMPANY

524/449-C, Rally Godown, Shamat ganj Bareilly, UP-243001, Tel:8006669900 GSTIN: 09BVBPA7986A1ZN Email: yaamitradingco@gmail.com

April 19, 2024

Analysis Report (Ferric Alum Solid Grade-4)

To, Deximco Tenigram SL. BD.,

Contract No.: Telephonic Batch No.: 202404-19A Date of Manufacturing: 18.04.2024 For better results material should be consumed within 2 months from manufacturing.

Truck No.: NA Otv.: 1 KGs

S.No. Description/Specifications Requirements			G Findings/Results	
3.110.	Description/Specifications	Requirements	Fillulings/Results	
1.	Color	White to off-White	White	
2.	Insoluble Matters,% by mass, Max	0.4%	0.31%	
3.	Soluble Iron Compounds(Fe)% by mass, Max.	0.7%	0.3%	
4.	Water Soluble Aluminum Compounds(Al ₂ O ₃)% by mass, Min.	16%	16.91%	
5.	pH Min	∠ 2.7	2.72	
6.	Basicity,% by mass, Max.	0.5%	(Basicity)0.25%	
7.	Lead(Pb), ppm, Max	<8	<2	
8.	Arsenic(As ₂ O ₃), ppm, Max	<4	<1	
9.	Mercury(Hg), ppm, Max	0.4	Not Detected	
10.	Manganese(Mg), ppm, Max	<20	13.33	
11.	Chromium(Cr), ppm, Max	20	Not Traceable	
12.	Cadmium(Cd), ppm, Max	2	Not Detected	
13.	Selenium(Se), ppm, Max	4	Not Detected	
14.	Phenolic Compounds(C ₆ H ₆ O)	0.4	0.016	
15.	Anionic detergents(MBAS), ppm, Max	80	13.22	

Remarks: The material confirms to IS 299:2012 as per amendment No.1 and 2.

Kind Regards,

Yaami Trading Company For Yaami Trading Company

Proprietor

(Proprietor) 800666900

Material Safety Data sheet

1. IDENDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name

Ferric Alum Solid / Alumina Ferric

Recommended Use

Water treatment, flocculant, pH control, paper and pulp, deodorising agent,

fire retardant, foam boosting, dyes, mordant, printing fabric, catalyst.

Supplier

:

:

Yaami Trading Company

Mobile Number

80066 69900

2. HAZARDS IDENTIFICATION

NOT-CLASSIFIED AS DANGEROUS GOODS.

:

Risk Phrases

Irritating to eyes and skin.

Safety Phrases

Avoid contact with skin and eyes. In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice. Wear suitable

protective clothing, gloves and eye/ face protection.

Poisons Schedule

None allocated.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Aluminium sulphate & Ferric sulphate

4. FIRST AID MEASURES

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible, either on site or at the nearest hospital.

Skin Contact: If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye Contact:

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

Ingestion:

Rinse mouth with water. Seek medical advice. If swallowed, do NOT induce vomiting. Give a

glass of water.

Medical Attention

Treat symptomatically

and special treatment:

5. HANDLING AND STORAGE

Conditions for safe storage: Store away from incompatible materials described in Section 10. Store under cover in a dry place. Keep containers closed when not in use-check regularly for spills.

Precautions for safe handling: Avoid skin and eye contact and breathing in dust. Avoid handling which leads to dust formation.

6. EXPOSURE CONTORLS / PERSONAL PROTECTION

Aluminium, soluble salts (as Al): 8 hr TWA= 2 mg/m3

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering controls:

Ensure ventilation is adequate and that air concentration of components is controlled below quoted Exposure Standards. Avoid generating and breathing in dusts. Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use.

Personal Protective Equipment:

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Personal Protection Guide F-OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, DUST MASK.

Avoid generating and inhaling dusts. If dust exists, wear dust always wash hands before smoking eating drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

7. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Solid

:

:

Colour

White to Light Tan

Odour

Negligible

2 of 4

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Molecular Formula

AL2(SO4)3.16H2O

Solubility

Miscible with water

Specific Gravity

2.71 @ 20 °C

Flash Point (°C)

Not applicable

Solubility in water (g/L)

870 g/L

Decomposition Point (°C)

770

8. STABILITY AND REACTIVITY

Chemical Stability

Will absorb moisture from the atmosphere.

Conditions to avoid

:

Avoid exposure to moisture. Hygroscopic - adsorbs moisture from the air.

Incompatible materials

Incompatible with alkalies. Incompatible with oxidising agents.

Hazardous decomposition

Products

Oxides of sulphur. Oxides of aluminium.

Hazardous reactions

Hazardous polymerisation will not occur. May react with some metals in

the presence of moisture.

9. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion *

Swallowing can result in nausea, vomiting, diarrhoea, and gastrointestinal irritation.

Eye contact

An eye irritant.

Skin contact

Contact with skin will result in irritation.

Inhalation

Breathing in dust may result in coughing. Breathing in dust may result in respiratory irritation.

Long Term Effects:

No information available for the product.

10. ECOLOGICAL INFORMATION

Ecotoxicity:

Avoid contaminating waterways

11. TRANSPORT INFORMATION

Not classified as Dangerous Goods for transport by

Road and Rail: NON DANGEROUS GOODS.