Aluminum Stearate 22

Description

Aluminum Stearate 22 distearate is the aluminum salt of distilled, hydrogenated fatty acids. The di-soap contains a significantly larger amount of metal and smaller amount of free fatty acid. An all vegetable version is available upon request.

Applications

One of the major applications areas for aluminum stearates is in the manufacture of protective and decorative coatings, where these soaps are employed in solvent-based paints and enamels, varnishes and lacquers.

Also used as dry lubrication in metal processing, thickening of aliphatic and aromatic solvents in ink manufacture, jelling of plasticizers for vinyl plastigels, greases pharmaceutical products and water repellents.

In coatings, Aluminum Stearates 22 can provide excellent pigment suspension and good sag resistance at maximum bodying action or gel strength.

Form

Powder

Packaging

Fiber Drum -100lbs (45.36kgs)
Bag – 25lbs (11.34kg); 50lbs (22.68kgs)
Bulk Sack – 600lbs (272kgs)

Solubility

Aluminum Stearates are:

- Insoluble or very sparingly soluble in water, methanol, ethanol, esters or ketones.
- Soluble in hot turpentine, benzene, toluene, xylenes, carbon tetrachloride, vegetable oils, oleic acid, waxes and pyridine.

Product Specifications

Properties	Specifications
Total Ash	9.00 – 11.50
Fineness % Thru 20 Mesh	100.00 min
Fineness % Thru 200 Mesh	90.00 – 100.00
Fineness % Thru 40 Mesh	99.80 – 100.00
Free Fatty Acids (As Stearic)	2.00 – 7.00
Water	0.00 – 1.00
Water Soluble Salts	0.00 – 1.00
Softening Temperature °C	140.0 – 180.0
Appearance, Free Flowing White Powder	

FDA Status

Aluminum Stearate 22 is approved for use by the Food and Drug Administration (FDA) in several regulated applications. These use clearances are listed in the following sections of Title 21 of the Code of Federal Regulations:

Applications	21CFR	Limits
In adhesives	175.105	None
Acrylate ester copolymer coatings	175.210	None
Resinous and polymeric coatings	175.300(b)(3)(xxiii)	Driers
Resinous and polymeric coatings for polyolefin films	175.320	None
Xylene-formaldehyde resins condensed with 4,4'-ispropylidenephenol-epichlorohydrin epoxy resins	175.380	
Zinc-silicone dioxide matrix coatings	175.390	
As a component of paper and paperboard brought in contact with aqueous and fatty foods	176.170	None
As a component of paper and paperboard brought in contact with dry foods	176.180	None
Cellophane	177.1200	None

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FDA Status

Applications	21CFR	Limits
In closures with sealing gaskets for food containers	177.1210	
Ethylene-vinyl acetate copolymers	177.1350	
Hydroxyethyl cellulose film, water soluble	177.1400	
Surface Lubricants Used in the Manufacture of metallic articles	178.3910	None
Stabilizers	181.29	None

This FDA status information is intended to provide an overview only and is not intended to be an alternative to reading the FDA regulations. The above CFR sections should always be consulted for the complete context before any conclusion is made as to the allowed regulated use.

Safety and Handling

In case of accidental eye contact, flush with large amounts of water and call a physician. If swallowed, call a physician.

Aluminum Stearate is not regulated by the Department of Transportation (DOT). They are not corrosive and not flammable by DOT definitions. However, these products are available in powder form and – like all powders – should be handled in such manner as to minimize dusting. Otherwise, an explosive hazard could develop. Avoid all sources of ignition when handling this product. Avoid contact with skin and eyes when handling this product.

Although metallic stearates are chemically stable, they should be kept away from strong oxidizing agents. They should not remain at temperatures greater than 75 – 85 °C (167 – 185 °F) for extended periods of time.

Please consult the Material Safety Data Sheet for additional information on safety, handling and storage before using this product. Contact PMC Biogenix, Inc. for copies of the MSDS for this product.

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