

Milliken® AlphaSan®

Silver Ion Based Antimicrobial

TECHNICAL DATA

AlphaSan is a zirconium phosphate-based ceramic ion-exchange resin containing silver. Silver is well-known to be safe for human contact, and is effective against a broad spectrum of microorganisms that cause odor, discoloration, biofouling, and other aesthetic problems. High temperature stability and low color formation make AlphaSan uniquely suited to provide antimicrobial performance in a wide variety of applications.

Features

- Efficacy**
 Provides inhibitory activity against a wide range of microorganisms at low use levels.
- Durability**
 Engineered to provide a non-migratory, long-term antimicrobial effect.
- Thermal Stability**
 Will not discolor or decompose during high temperature processing.
- Processing Flexibility**
 Easily incorporated into a wide variety of applications in masterbatch form or by direct addition to raw materials.
- Manufacturing Ease of Use**
 AlphaSan has a uniform particle size, low moisture regain and will not agglomerate.
- Safety**
 AlphaSan is not:
 Toxic | Flammable | Explosive | Corrosive

Properties

Typical Property	RC 2000	RC 5000	RC 7000
Product Form	Odorless white powder	Odorless white powder	Odorless white powder
Avg. Particle Size	1.3 microns	1.3 microns	1.3 microns
Percent Silver	10.0%	3.8%	1.3%
Percent Zinc Oxide	0%	0%	69.0%
Percent Water	<0.5%	<0.5%	<0.5%
Bulk Density	0.25-0.30g/cc	0.25-0.30g/cc	0.25-0.30g/cc
Thermal Stability	>800°C	>800°C	>800°C

Storage & Handling

Keep container tightly closed in a dry and well-ventilated area. Shelf life is 3 years under these conditions.

Please contact your Milliken representative for further product information including chemical registrations, food contact status, and other regulatory details.

PLEASE NOTE: As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at www.milliken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

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