



SILVER NITRATE

Rochester Silver Works produces high-quality silver nitrate in commercial volumes, up to 4 million kilograms annually. Our silver nitrate, known for its exceptional purity and consistency, and is a critical component in a wide range of industries and applications



Key Features

- High Purity: Produced from high-quality silver metal (>99.99%) and tower-grade nitric acid.
- Consistent Quality: Purified to meet high specifications, surpassing ACS and UPS grades.
- Automated Process: Highly consistent production capabilities.

Benefits

- High Quality and Consistency: Uniform quality across all batches.
- Process Efficiency: The consistency and purity reduce the need for process adjustments.
- Variety of Forms: Available in both solid and liquid forms with various packaging options.

Applications

- Traditional Photographic Films: Ensures high-quality image production.
- Medical Products: Used in medical applications due to its purity and quality.
- Solar Panels: Enhances the efficiency and durability of solar cells.
- Electrical Contacts: Provides reliable conductivity and longevity.
- Anti-microbial Products: Effective in inhibiting microbial growth.
- Mirrors: Used in the production of high-quality reflective surfaces.



Rochester Silver Works, LLC
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SILVER NITRATE PHYSICAL PROPERTIES

Appearance	Free flowing. >99% white oblong pellet shaped 1% silver nitrate crystals/fines
Apparent Density	1.9-1.95 g/cm ³
Particle Size	1-2 cm

SILVER NITRATE CHEMICAL COMPOSITION

Parameter	Specification	Typical Values
% Assay (w/w)	>99.8	>99.8
% Moisture (w/w)	<0.1	0.005-0.05
Free Acid (meq H ⁺ /kg AgNO ₃)	0.26-2.57	1-1.4
pH	3.6-4.6	3.8-4.0
% Insolubles (w/w)	<0.02	0.005-0.01
Nitrites	<2	0
Maximum	ppm	Typical Values of Silver Nitrate
Chromium	0.2	<0.008-0.02
Copper	0.1	<0.007
Iron	0.4	<0.05-0.2
Mercury	0.007	<0.003
Nickel	0.2	0.01-0.02
Lead	0.2	<0.027
Sulfur	8.3	<1
Selenium	0.1	<0.022
Zinc	0.1	<0.008



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