

Printing & Packaging

Industrial Coatings

Functional Packaging Coatings

Technical Data Sheet

Zinc Oxide Solution No.1



We create chemistry

Product Description	Zinc Oxide Solution No.1 is a zinc ammonium crosslinking agent for overprint varnish, industrial coating, and functional packaging coating applications.
Key Features & Benefits	<ul style="list-style-type: none">- Carboxyl group crosslinking agent- Improves heat and water resistance- Improves film hardness
Chemical Composition	Zinc ammonium carbonate solution

Properties

Typical Properties	Appearance	clear, water-white uniform solution
	pH at 25°C	10.9 – 12.1
	Ash	14.7 – 15.3%
	Density at 20°C	1.21 g/cc, 10.1 lbs/gal
	Freeze-thaw stable	Yes
Typical Characteristics	Appearance	clear, water-white uniform solution
	Non-Volatile	15%
	pH	11.4
	Viscosity at 25°C (Brookfield LVF #2 spindle, 30 rpm)	5 cps
	Density at 25°C	1.22 g/cm ³
	Melting Point	56°C
	Freeze-thaw stable	Yes
	Total VOC	< 0.005% wt

These typical values should not be interpreted as specifications.

Applications

Zinc Oxide Solution No.1 is a zinc ammonium carbonate solution designed to be used as an additive in aqueous inks and coatings where improved heat resistance and film hardness are desired. This solution provides improved film properties without substantially reducing gloss.

Zinc Oxide Solution No.1 is recommended for applications such as:

- Overprint varnishes for commercial, publication, or packaging applications
- Functional packaging coatings for barrier, heat-seal, pre-metallization, or film/foil applications
- Interior/exterior wood coatings for millwork applications

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Zinc Oxide Solution No.1 .

Storage

Properly stored and protected, Zinc Oxide Solution No.1 should have a shelf life of at least one year.

Important

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