

Technical Bulletin

Lupasol® P Polyethylenimine

Description

High molecular weight ethylenimine homopolymer. Colorless to pale yellow, aqueous solution with honey-like consistency.

Applications

Lupasol P has been used in the paper industry for over 50 years for increasing paper strength and flocculating fines in waste streams for recycling. Today this is its largest use.

Lupasol P promotes adhesion between different types of polyolefin surfaces, poly-olefins/paper, and metal films/paper. Lupasol P also improves adhesion of tire cords to natural and synthetic rubbers.

Lupasol P promotes adhesion of paints, ink jet inks, pigments, dyes, and fillers to various surfaces. It is a cationic dispersant.

Lupasol P, also promotes adhesion to metal surfaces and improves corrosion inhibitors.

Lupasol chelates heavy metal ions selectively and reversibly. It will scavenge organic halides.

Lupasol P anchors active enzymes to porous and non-porous supports for use in industrial chemical synthesis. Immobilized PEI effectively filters endotoxins and pathogens from blood plasma.

Note

Lupasol P and Lupasol PS are the same molecule with different percent solids.

Shelf Life

About 1 year in sealed containers. Freezing can occur at temperatures below 0°C, but it is fit for use after thawing and stirring.

Lupasol is a registered trademark of BASF Aktiengesellschaft

For More Information

Order Placement

To place orders for delivery in the United States please call our toll free number (800) 443-6460. To place orders for delivery in Canada please call BASF Canada at (800) 267-2955.

For Other Information

Including product literature and Material Safety Data Sheets please call (847) 249-6750.

Or Visit Our Website At:

www.performance.basf-corp.com

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Specifications

Solids content.....	48.0 – 52.0 %
Viscosity @ 20°C.....	18,000 – 40,000 mPa·s

Typical physical properties

Density (20°C).....	1.09 g/cm ³
Pour Point.....	-3°C
pH.....	10–12
Dry Content.....	50%
Viscosity (20°C).....	18,000 – 40,000 cps
Average Molecular Weight.....	750,000
Common Chemical Name.....	Polyethylenimine (PEI)
CAS Number.....	9002-98-6

FDA Status

173.357	Materials used as fixing agents in the immobilization of enzyme preparations.
175.105	Lamination or sealing of food packaging items.
175.320	Resinous and polymeric coatings for polyolefin films to anchor epoxy surface coatings to base sheet.
176.170	Component of paper and paperboard in contact with aqueous and fatty foods.
176.180	Component of paper and paperboard in contact with dry food.
177.1200	Prime coat for cellophane used for packaging food impregnated in regenerated cellulose sheets.

Please refer to the Material Safety Data Sheet (MSDS) for this product for instructions on safe and proper handling and disposal.

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BASF Corporation
3000 Continental Drive-North
Mount Olive, New Jersey 07828-1234
800-443-6460

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