



Technical Data Sheet

ACUSOL™ 587 Dispersant Polymer **ACUSOL™ 587G Dispersant Polymer**

ACUSOL™ 587 Dispersant Polymer is an acrylic acid copolymer designed to offer select benefits in household, industrial, and institutional cleaning formulations. The molecular weight and monomer ratio are selected to deliver excellent performance in dishwashing and cleaning applications.

ACUSOL™ 587 Dispersant Polymer is commercially available in a liquid (ACUSOL™ 587 Polymer) and a dried, granular format (ACUSOL™ 587G Dispersant Polymer) and comes partially neutralized.

Features & Benefits

- Excellent dispersant and encrustation inhibitor for the reduction of silicate and phosphonate scales in automatic dishwashing formulations

Applications

- Automatic dishwashing powders, tablets and unit dose
- Industrial and institutional warewash
- Industrial and institutional CIP, bottle washing, metal cleaning

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.
ACUSOL™ 587 Dispersant Polymer

Property	Unit	Result
Appearance		Clear, yellow liquid, free of visible impurities
Molecular Weight (Average)	g/mole	11,000
Total Solids	%	36.5–37.5
pH		4.1–5.1
Charge		Anionic
Chemical Nature		Carboxylate/sulfonate copolymer
Color APHA/Hazen Pt-Co		< 200
Viscosity Brookfield (mPa.s), LV, Spindle #1, 12 rpm, 25°C	cP	100–300

Typical Properties (Cont.)

ACUSOL™ 587 G Dispersant Polymer

Property	Unit	Result
Appearance		White granules
Molecular Weight (Average)	g/mole	11,000
Total Solids	%	> 92
Charge		Anionic
Chemical Nature		Carboxylate/sulfonate copolymer
Average Particle Size	µm	800
Bulk Density	g/L	500–750

Performance Properties

Properties	Specific Action	Rating
Crystal Growth Inhibition	Calcium carbonate	Not recommended
	Silicate salts	Excellent
	Calcium polyphosphate / polyphosphonate	Excellent
	Sulfate salts	Average
Dispersion of insoluble salts and particles	Calcium carbonate	Average
	Calcium polyphosphate / polyphosphonate	Excellent
	Organic salts	Very good
	Lime soap and proteinaceous food soils	Average
	Zeolite	Average
Hypochlorite/peroxygen (bleach stability of the polymer)		Very good
Processing aid for spray dried powders and agglomerates		Average
Bleach stabilizers	Chelation of transition metal ions	Good

Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life and Storage

Store product in tightly closed original container at temperatures recommended on the product label. It is recommended to avoid excessive storage temperatures and to protect it from freezing.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health and Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

dow.com

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

