



---

## **Dow Home, Institutional and Personal Care Solutions**

Sustainability Value Chain Assessment -  
ACUSOL™ 588/588D/588G

---





## ACUSOL™ 588/588D/588G Polymer for Automatic Dishwashing Detergents

### Description

ACUSOL 588 is a distinctive copolymer specifically designed for phosphonate, low phosphate and/or silicate compositions for automatic dishwashing detergents in powder, liquid, or tablet form. Its chemical structure and molecular weight are optimized to provide calcium polyphosphate/phosphonate magnesium silicate inhibition properties, which reduces filming on glasses and dishes in automatic dishwashers.

### Benefits

ACUSOL 588 is a key ingredient in automatic dishwashing detergents containing high, reduced, or no phosphate and/or silicate levels in their formulations. By using this polymer, detergent manufacturers benefit from the following advantages:

- Excellent control of filming in automatic dishwasher applications, especially phosphate and silicate scales
- Enhanced cleaning, through high dispersing stability of food soils and the prevention of soil deposition on newly cleaned surfaces
- Safe and easy-to-handle liquids
- Cost effectiveness, through reduced manufacturer time, cost and difficulty

Manufacturers using ACUSOL 588 can then deliver increased value to their consumer base, with a fundamentally advanced automatic dishwashing detergent, offering:

- Significantly reduced “spotting” and “filming,” for high shine glassware
- Reduced streak formation on silverware, crockery and glassware after drying
- Improved rinsing efficiency, even during low water rinse programs

### Sustainability

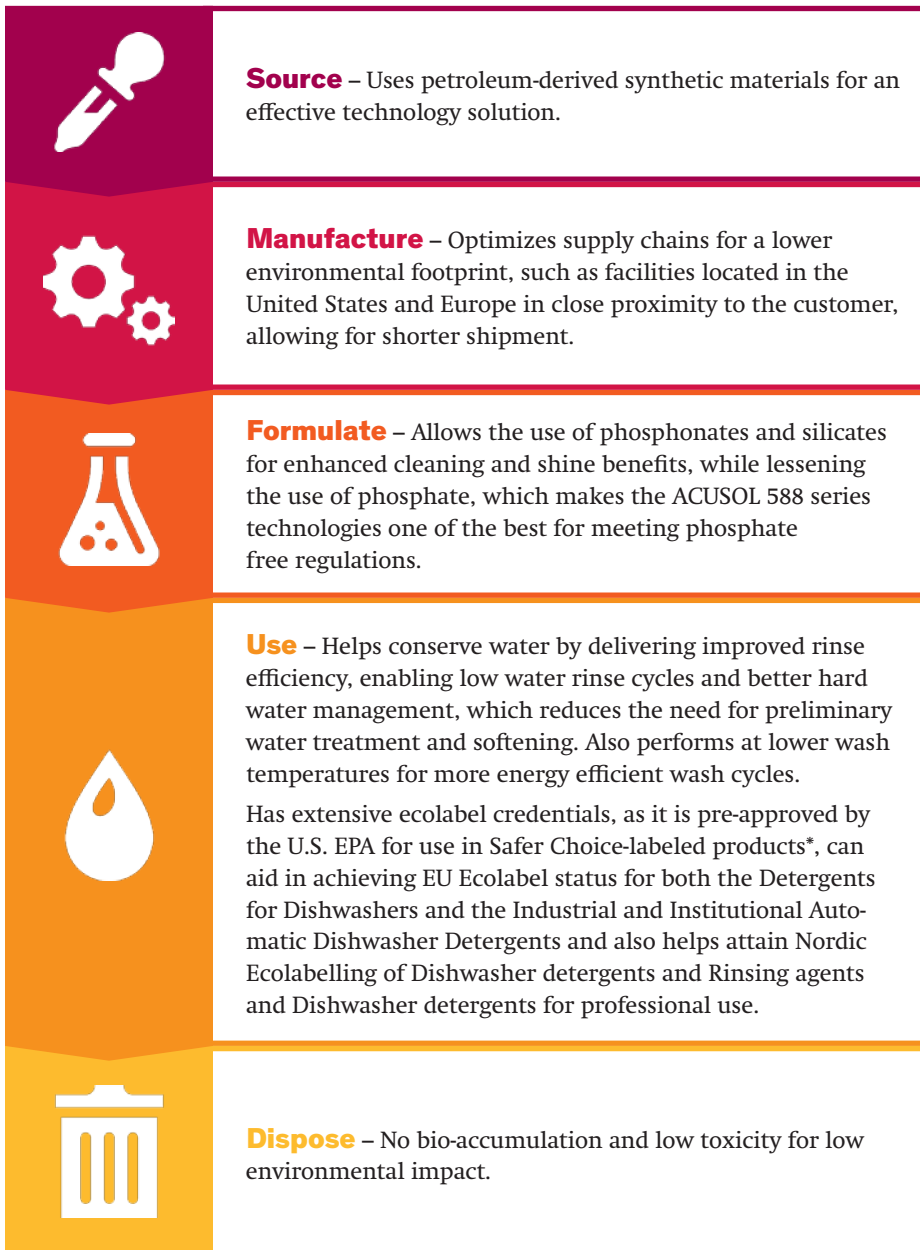
Let’s be honest, navigating the sustainability landscape can be a daunting task. It helps to have a partner with an established sustainability record and solutions tailored to the application at hand. With over 50 years of home, institutional and personal care market experience, Dow is fully equipped to serve you, your customers and the planet, with high-performing products that provide improvements for sustainability in action in the application. With ongoing collaboration, Dow’s experts help you create high-value formulations that save natural resources, support cleaner, more efficient manufacturing processes and deliver against your sustainability agenda.

# Value Chain Assessment - ACUSOL™ 588/588D/588G Polymer

With a value-chain method, Dow Home, Institutional and Personal Care Solutions can help address sustainability challenges head-on with a disciplined approach of addressing needs from a consumer, environment and business perspective. Dow is focused on making sustainability an easy business decision by providing you with the tools needed to help manage your reputation, improve your consumer experience and ultimately,

improve the way you do business.

The way the assessment works is by highlighting the benefits our technology brings to each stage of the value chain. This allows for easier decision making as it helps you see where the benefits impact your business and also helps Dow identify opportunities for improvement.



## A Practical Approach



The pursuit of more sustainable solutions is a constant journey.

At Dow Home, Institutional and Personal Care Solutions, sustainability is more than an environmental stance; it's a business model and a long-term commitment to:

- Use resources efficiently and minimize our footprint and optimize the footprint of our customers.
- Provide value to the customer by offering more sustainable solutions that offer positive social impact, reduced environmental footprint and increased total value.
- Enhance the quality of life of current and future generations through a constant pursuit of more sustainable options.

\* ACUSOL 588G is listed on CleanGredients® as a polymer that has passed the Safer Choice Standard. CleanGredients is a database of chemical ingredients whose formulations have been pre-approved by the U.S. EPA for use in Safer Choice-labeled products.

---

# Science for a Sustainable World

---

We only have one planet, with limited resources. So everything we do and how we do it matters. Dow is committed to minimizing our own footprint and to offering solutions that help our customers and the rest of society do the same. The world needs solutions for big challenges like energy, climate change, water, food, housing and health. And Dow has some of the world's best scientists and engineers dedicated to solving world challenges through innovation. When we do that, it's not just good for the planet; it's also good for business. Dow remains committed to continuously improving its performance and publicly reporting its progress. Please visit [dow.com](http://dow.com) for the latest Dow sustainability, business and performance news, and to share your comments or submit questions.



---

## From North America

Toll-free 800-447-4369  
Toll call 989-832-1542  
Fax 989-832-1465

## From Europe, India, Africa and the Middle East

Toll-free\* 800-3-694-6367  
Toll call + 31-11567-2626  
Toll-free for Italy 800-783-825  
Toll-free for South Africa 800-99-5078  
Fax + 32-3-450-2815

## From Asia Pacific

Toll-free\*\* + 800-7776-7776  
Toll call + 60-3-7965-5392  
Toll-free fax\*\* + 800-7779-7779  
Toll fax + 60-3-7958-5598

## From Latin America

Toll call + 55-11-5188-9000  
Fax + 55-11-5188-9887

## [hips.dow.com](http://hips.dow.com)

\* Toll-free from Austria, Belgium, Denmark, Finland (prefix 990), France, Germany, Hungary, Ireland, The Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom

\*\* Toll free from Korea, Japan, China, Taiwan, Hong Kong, Thailand, Malaysia, Singapore, Philippines, Australia, and New Zealand

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, the Customer is responsible for determining whether products and the information in this document are appropriate for the Customer's use and for ensuring that the Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Dow assumes no obligation or liability for the information in this document. No warranties are given; all implied warranties of merchantability or fitness for a particular purpose are expressly excluded. This document is intended for global use.