



## The art of foam control

Bluestar Silicones. Delivering Your Potential.

**BLUESTAR**  
**SILICONES**

# Bluestar Silicones antifoams



## Why trust Bluestar Silicones with your foaming problems?

Established in 2007 through the acquisition of Rhodia Silicones by China National BlueStar Corporation, Bluestar Silicones is a global silicones supplier with manufacturing operations in all regions of the world. Bluestar Silicones is one of the world's leading fully integrated global silicones manufacturers.

With more than 50 years of silicone expertise, Bluestar Silicones offers a full-range of silicone products in the areas of release coatings, specialty elastomers, health care, specialty fluids like antifoams, emulsions and resins.

Working with Bluestar Silicones antifoams, customers will benefit by:

- Bluestar Silicones strong commitment to the continuous development of best in class silicone antifoams solutions that will help customers in their sustainable development policy (ultra efficient products can be used at very low dosage).
- Bluestar Silicones vertical integration in silicones technology and very competitive offers.
- Bluestar Silicones strong involvement in Quality.
- Bluestar Silicones dedicated Antifoam technical service team with long field experience.
- Bluestar Silicones global presence with production facilities and application laboratories on the four continents and a wide commercial network covering more than 100 countries.



## Bluestar Silicones antifoams technical service

Laboratory recommendations based on a description of the application and process

In order to select the best defoamer for your process, our technical service team can perform various laboratory tests with your foaming media.



Laboratory tests meeting the most demanding standards

All quality controls are made in reference standard NF T-77 112.

In addition, we carry out other tests to regularly measure the effectiveness of our products with for example:

- The Fall and recycling test: NF T-73 412
- The Gas bubbling test: NF T-73 413
- The Shaking test: NF T-77 112
- The Washing machine test for detergency
- The Ross-Miles test for diesel fuel: NF M-07 075

After first selection, our team is available to assist you for industrial trials in your plant in order to measure the efficiency in real conditions and optimize the dosage and introduction procedure.

Innovation and partnership with Bluestar Silicones

Bluestar Silicones is committed to partner with your company to develop innovative defoamer solutions to meet new specific requirements.



## Bluestar Silicones quality standards and regulatory assistance

Regulatory assistance

Our technical service and product stewardship teams support our customers to answer all questions regarding compliance with local regulations.

Dynamic innovation based on partnership

Bluestar Silicones works with major research centers such as the IFP (French Oil Institute) in France to develop innovative solutions, adapted to its customers' increasing demands.

Quality assurance throughout the world

All our plants are certified ISO 9001 v 2000. The defoaming performance of each production batch is checked by shaking test in our quality control laboratory.

The assurance of an ecological solution

Contrary to certain preconceived ideas, silicones are degradable. They are slow to break down but they break down fully in the natural environment, as shown in several university studies. Considering their harmlessness and their low oxygen demand, they are a solution which is beneficial for the environment.





## Solutions adapted to each foaming system

Our silicone antifoams have applications in many industrial sectors.

Our specialists are at your disposal to carry out a preliminary analysis to help you find the best compromise. This will depend on your process and productivity requirements as well as specific features of your foaming system.



### Pulp and paper

Our high performance silicone antifoams are designed for use in pulps mills with sulfite and kraft processes for both hardwood and softwood. They allow to speed up pulp washing and drainage. Our range includes ready-to-formulate silicones compounds and ready-to-use emulsions. Our silicone antifoams are outstanding for knock down and long lasting effect and do not deposit on cellulose fibers.



### Chemicals industries

Mineral or organic chemistry covers a vast field of technologies. Our silicone antifoams are commonly used to solve foaming problems in many production processes. Filtration, transfer and distillation are often hampered by foam control problems. Used for the past 40 years in our own plants, our antifoams are optimized to withstand the most hostile environments, whether very strongly acid or alkaline.



### Bio-fermentation

Silicone antifoams are particularly suited to bio-fermentation processes. They are used at different stages in the process: in sterilization, fermentation, separation phases, distillation and effluent treatment. They are particularly compatible with membrane separation processes and they have a very low Chemical and Biological Oxygen Demand.





## → Agrochemicals

Pesticides formulations contain a high quantity of surfactants and therefore have a strong tendency to foam and hinder the application. Our silicone antifoams have been developed to control foam in various formulations including emulsifiable concentrates, suspension concentrates and water dispersible granules.



## Water treatment

Foam control is a major concern for all waste water treatment plants and silicone antifoams have proved their effectiveness in this domain. They show a higher foam control performance with a long lasting effect than organic antifoams, Bluestar Silicones antifoams have been used for many years in both domestic and industrial waste water treatment plants. In most cases, silicone antifoams are used in the biological part of the treatment but, depending on the plant configuration, they can also be used at other stages. The harmless nature of silicones and their very low Chemical Oxygen Demand help our customers to comply with environmental standards.



## Oil and gas

The oil and natural gas industry is frequently confronted with foaming problems, most often caused by natural surfactants present in hydrocarbons: asphaltenes. Our silicone antifoams improve overall productivity both when drilling, extracting, producing and during purification and separation process. Our silicone formulations are classed non-toxic on aquatic systems for algae and marine fauna.



## Food sector

Bluestar Silicones does not commercialize food additives. Some of our antifoams can be used in the composition of packaging material in contact with food. They can also be suitable for use as process aids in food production as sugar, yeasts, vegetables... Compliance with up to date regulation must be checked with our product stewardship department. Our food antifoams range is Kasher approved.





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