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The logo for 'At ANTIFOAM', featuring a stylized 'A' and 'F' in blue and green, followed by the text 'At ANTIFOAM' in a bold, sans-serif font.

At ANTIFOAM

We are committed to  
becoming a global leader  
in the manufacture of  
green chemicals.

# ANTIFOAM

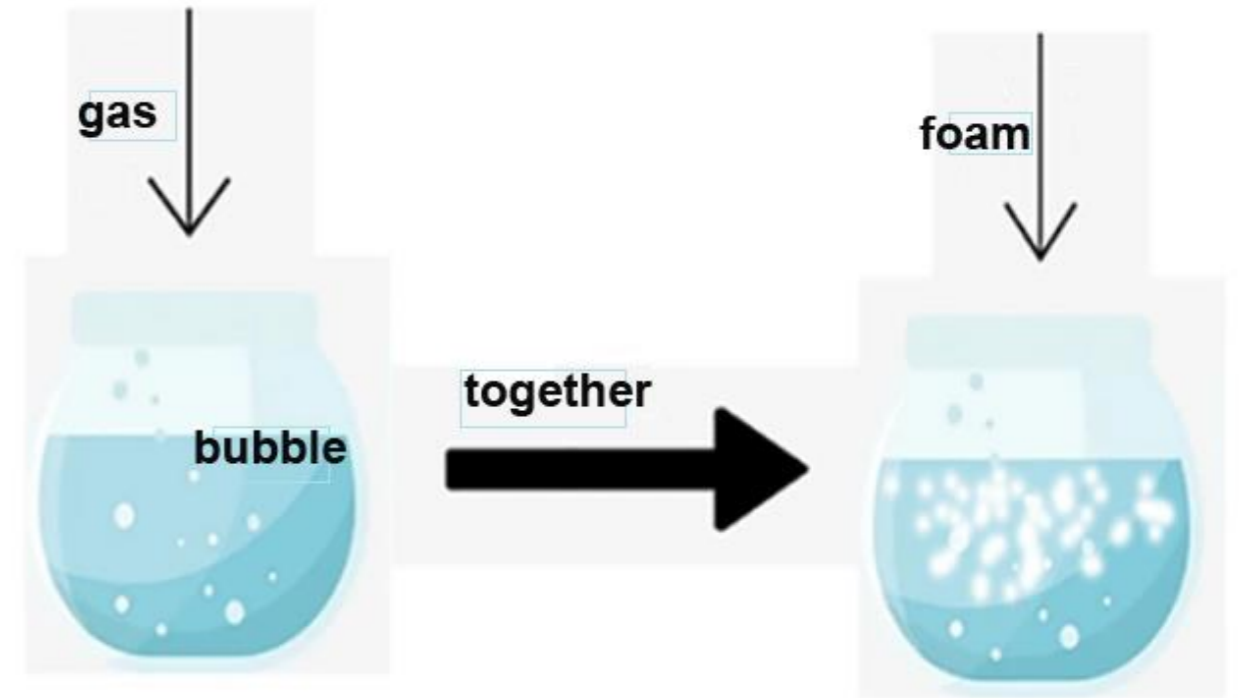
ANTIFOAM company is a growth oriented, diversified, defoamer chemicals manufacturer dedicated to innovative foam control solutions in a broad range of markets.

With professional knowledge, rich experience and mature technical research and development team, ANTIFOAM company serves its wide range of anti foam agent solutions to the partners from different industries, including pulp and paper, textile, water treatment, oil and gas, construction, agriculture, paint and coating, ink, household, and laundry, industrial cleaning, alumina and other industries.

With experience spanning more than 20 years, the ANTIFOAM company is one of the major actors in the formulation of defoamers and antifoams for all industry sectors.



**Our factory**



## Defoamers and Antifoams:

Foam typically occurs in blending, mixing, distillation, fermentation, filtration and filling processes. While mechanical processes can control foaming, chemical agents can be more versatile, effective and economical. Our antifoam solutions may offer the advantages of dispersing readily, leaving no substantial residue or odor, and meeting relevant regulatory requirements.





# ANTIFOAM

## Advantages

### Research and Innovation

Our R&D team is committed to developing new products and solving the technical problems to meet the any foam challenges of our partners. We believe that innovation comes from cooperation. Therefore, we welcome any ideas and suggestions.

Different industries require different methods of evaluating foam inhibition and foam generation. Antifoam has been designed a line of defoamers to effectively control foam in many industries.

In some cases, whether special requirement for process is needed custom formulation, or the current has a monopoly, we also can study and open a project specially for you.

### Technical Support

Our service is not only to provide high performance products. We also have very important technical assistance and comprehensive support. With our professional technical team, advance equipment, and innovated technical analysis, we are ready to deal any foam questions and problems you face.

### Quality Control

The quality of defoamers is essential to our company. As defoamer manufacturer, we have a mature quality inspection method and standard. Our quality control department is responsible for defining quality standards and monitoring product compliance with standards.



### Production and Supply

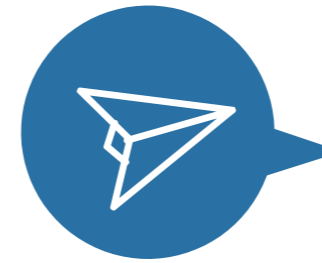
We have a independent manufacturing plant on liquid and powder defoamer production. Our factory was built and developed to accommodate our growing market demand and improve the supplying ability. Our total production capacity is 30000tons year to ensure fast supply.

We strive to provide our partners with the most cost and performance effective products that is the most suitable anti foam agent solutions. For all of our partners around the world , we welcome you to visit our factory!

**Please contact your representative in ANTIFOAM to schedule a time to visit!**

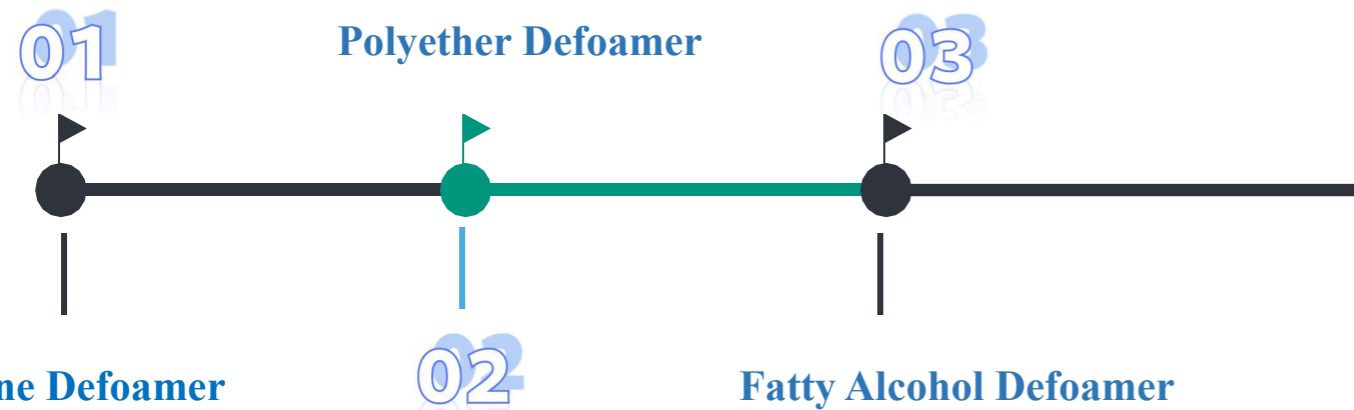


# ANTIFOAM Defoamers Range



## Applications of ANTIFOAM Defoamer

### Type of ANTIFOAM Defoamers:



- Pulp and Paper
- Textile Industry
- Water Treatment
- Industrial Cleaning
- Construction&Building
- Fermentation
- Laundry and Household
- Water-based Coatings and Inks
- Oil and Gas
- Alumina
- Agriculture
- Metal Cutting Liquid

Mineral Oil  
Defoamer

04



Powder Defoamer

05







# Pulp and Paper

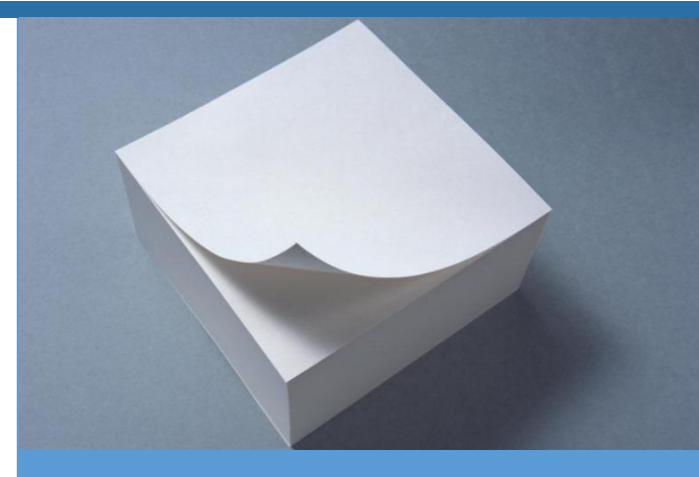
The pulp and paper industry is a complex one with many different kinds of mills, products and processes.

“Black Liquid” is a by-product of pulp from mills that is composed of different ingredients from these processes such as lignin, hemicellulose, sodium hydroxide and sodium sulfide.

“White water” mainly refers to the wastewater produced from paper-making equipment in the process of paper-making. White water contains a large number of fine fibers, fillers and other suspended substances, as well as sizing agents, preservatives, enhancers and so on. It also contains a lot of soluble colloidal substance. Papermaking process produces a large amount of white water emissions.



Foam is often generated through chemical interactions in the “black liquid” and “white water”, also combined with the rapid motions in the paper making process. When paper machines have excessive foam and entrained air, it adversely affects production rates and paper quality.



We have offered a complete line of defoamers to effectively control foam in pulp and paper processes, from pulp washing black liquid, paper machine web end white water, paper sizing and coating to wastewater treatment.



# Textile Industry



## Textile Sizing

The sizing process refers to the treatment method of increasing the toughness and luster of the fabric by using special substances. During the sizing process, foam occurs when the yarn moves at high speed.

## Textile Dyeing

Dyeing is a key process to make fabrics or fiber yarns produce color, and it is also a key process to enhance the value of textiles. Textiles can be dyed in all aspects of their production, that is, stock solution, loose fiber, tow, wool top (cotton sliver), yarn, rope, fabric, garment dyeing. Foam occurs during the dyeing process, both at medium and high temperatures.

In order to meet the requirements of textile processing, many additives and dyes are often added, and these additives and dyes will produce a large amount of foam after mechanical vibration, temperature and other changes in the production process, affecting the quality of textiles.

## Textile Auxiliaries



## Pretreatment and After-finish:

The purpose of pretreatment is to apply chemical and physical mechanical action to remove impurities on textiles.

After-finish refers to the physical, chemical or physical and chemical methods to improve fabric feel and appearance. Foaming can occur during the production and dilution of soft flakes.



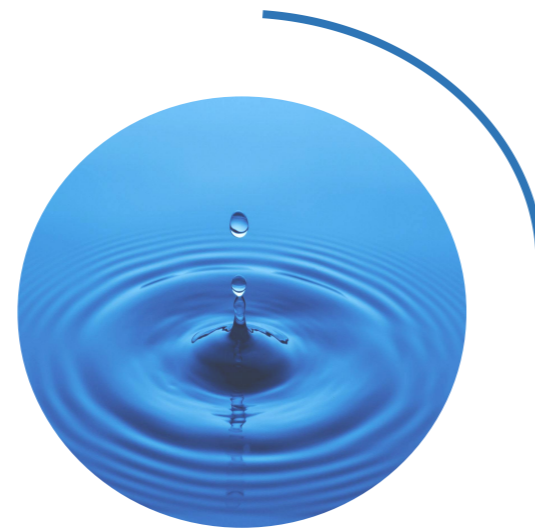
# Water Treatment

Water is the source of life and nurtures all living things on Earth. With the continuous development of human society and industrial modernization, the quality of water and the environment of water resources are becoming worse and worse. So many industries will treat water to protect water resources. The foam produced in the water treatment process will seriously affect the quality of water and the ecological environment. It will also reduce the efficiency of water treatment and increase the cost.



## ANTIFOAM manufactures defoamers and antifoams for following water treatments

- Municipal Sewage Treatment
- Industrial Circulating Water Treatment
- Biological Water Treatment
- Industrial Sewage Treatment
- Reverse Osmosis Water Treatment
- Landfill Leachate
- Sea Water Desalination



# Industrial Cleaning

- Electroplating Cleaning
- Metal Cleaning
- Steel Plate Cleaning
- General Industrial Cleaning
- Beer Bottle Cleaning
- Spray Cleaning



In order to improve the luster of the product and extend the service life, the product will be cleaned. In the cleaning process it will use a lot of water and cleaning agents, but the cleaning agent contains many chemical additives. At the high speed of the machine, a lot of foam is produced. The foam will cause economic losses and reduce economic efficiency.

Ensnared air and surface foam can create a variety of quality, production and environmental issues for industrial operations. To help industrial operations overcome these issues, we offer a full range of antifoams and defoamers. These products minimize the adverse effects of enrolling air, surface foam, and surfactant stabilized foam in water-based manufacturing systems and address most foam-related issues and regulatory requirements.

A little foam may not be much, but it can cause a lot of trouble. The foam produced in building materials will make the material contain a lot of mixed air, resulting in hollow finished products, seriously affecting the quality of the product if the unqualified building materials are applied to the project. The harm is self-evident, and we must pay attention to the foam problem.

## Construction & Building Materials

Cement mortar /concrete  
Asbestos Tile  
Gypsum  
Polycarboxylate Superplasticizer  
Ceramic Slurry  
Artesian Cement



## Fermentation

### Why is defoamer used in fermentation process?

1. The inside of the fermenter is not clean, containing residual bacteria and other fermentation products, and foam will appear during the fermentation process;
2. In the fermentation process, due to cell cracking, fermentation protein concentration increasing and other reasons, foam will also appear in the fermenter;
3. During fermentation, due to the mixing and operation of the equipment, the air is mixed and the pressure in the tank is unbalanced, foam is also produced.
4. Affected by the environment in the fermentation process, the temperature continues to rise during fermentation, and some of the components are decomposed by heat to produce foam.
5. Foam in the fermentation process is unavoidable, and what we can do is to solve the foam as soon as possible.







## Laundry and Household

Regardless of whether you are interested in foam control in liquid detergents, powder detergents or cleaning agents or whether you would like to use antifoam agents as processing aids, Nanjing ANTIFOAM is likely to have the right defoamers for your every need, which have the following features:

- 1. Fast defoaming speed, long suppression time, high efficiency, low dosage, and environmental protection.**
- 2. Easy to disperse in water, and can be well compatible with liquid products, no demulsification and no oil drift.**
- 3. Rapid defoaming and anti-foaming effect, and is well compatible with various additives.**

Water-based coatings and water-based inks are a new type of environmentally friendly products relative to traditional products. The principle is to replace the diluent in traditional products with water. Water-based coating refers to the coating with water as the main dispersion medium. According to the dispersion state of the resin in water, it is usually divided into three types: water-soluble paint, water-diluted paint, and water-dispersible paint (latex paint).

Water-based coating uses water as the solvent, which saves a lot of resources and has good adaptability to the material surface, but requires high cleanliness of the material surface. The application range of water-based coatings involves various fields of national economic construction, such as water-based architectural coatings, water-based automotive coatings, water-based metal anti-corrosion coatings and water-based wood coatings.

Water-based inks and water-based coatings have many common raw materials, such as additives, resins, pigments, etc. Water-based inks are relatively safe and environmentally friendly, and are commonly used in tobacco, alcohol, food, beverages, and children's toys. It has low adhesion, lacks gloss and dries slowly.

Water-based  
Coatings  
and  
Inks

# Oil and Gas

Oil, the "blood of industry", is thick and often dark brown, not only mainly used as fuel oil and gasoline, but also as a raw material for many chemical industry products, such as solutions, fertilizers, pesticides and plastics.

In the petroleum industry, there are foaming problems in many processes from drilling, refining to transportation etc. If there are too many foaming, the relative density of oil will decrease, which will affect the normal operation of the machines and slow down the production process.

Therefore, the appropriate addition of antifoam agents can better guarantee the defoaming problems of oil-gas separation process, oil drilling and refining, delayed coking, asphalt production and transportation, cementing, fracturing fluid, and ensure the high quality of oil.



# Alumina

Alumina, a white solid that is insoluble in water, is often called bauxite in mining, ceramics and materials science.

The Bayer production is to obtain high purity aluminate solution through deep desilication, iron removal and other purification processes, reduce the inclusion of impurities, and obtain alumina through calcination, grinding and other processes.

Due to the need for a lot of chemical reactions in the preparation process, combined with the effect of external agitation, a large number of bubbles are easily produced in the alumina solution system, which has a certain impact on the dissolution rate and red mud yield of the system, so it is necessary to use defoamers to control the foam and improve the production efficiency.







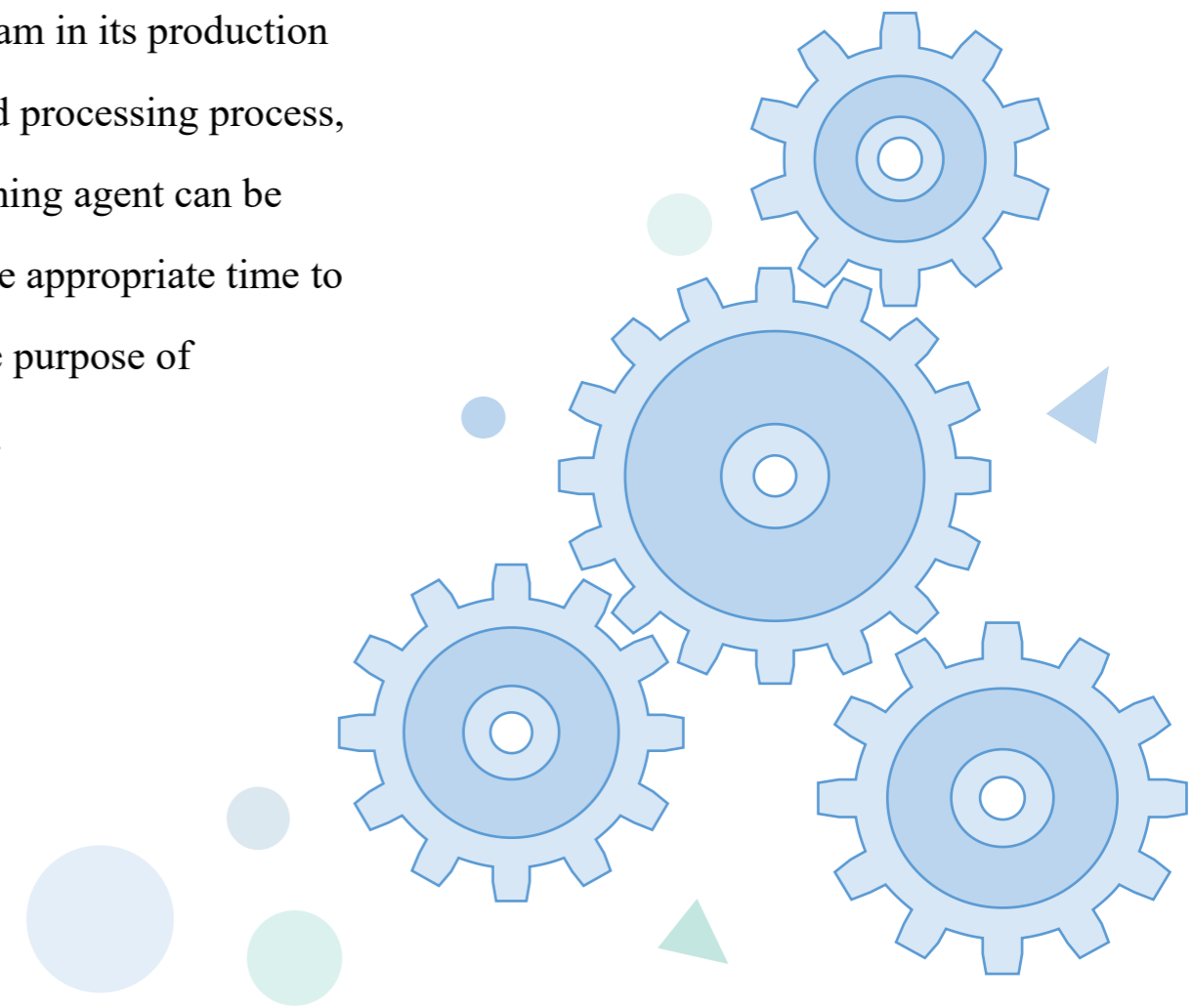
# Agriculture

Agriculture was a key development in the rise of human civilization. The production of healthy agricultural crops is inseparable from the use of pesticides, fertilizers, herbicides and other products. Due to various problems, a large amount of foam is produced during the production of these products. As a result, the use effect of the product is reduced, and the production efficiency and ecological environment are affected.



# Metal Cutting Liquid

Metal cutting liquid is a mixed lubricant used for cooling, lubrication, cleaning and rust prevention in the metal processing process. Its stable performance can be applied to a variety of cutting and grinding operations of various materials. Metal cutting liquid is easy to produce foam in its production process and processing process, and defoaming agent can be added at the appropriate time to achieve the purpose of defoaming.







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