



## Nanjing ANTIFOAM Environmental Technology Co., Ltd

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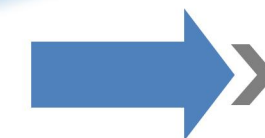
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# At ANTIFOAM

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

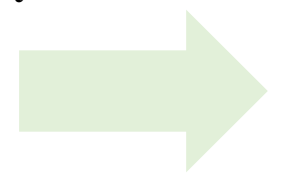


# ANTIFOAM PROFILE

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

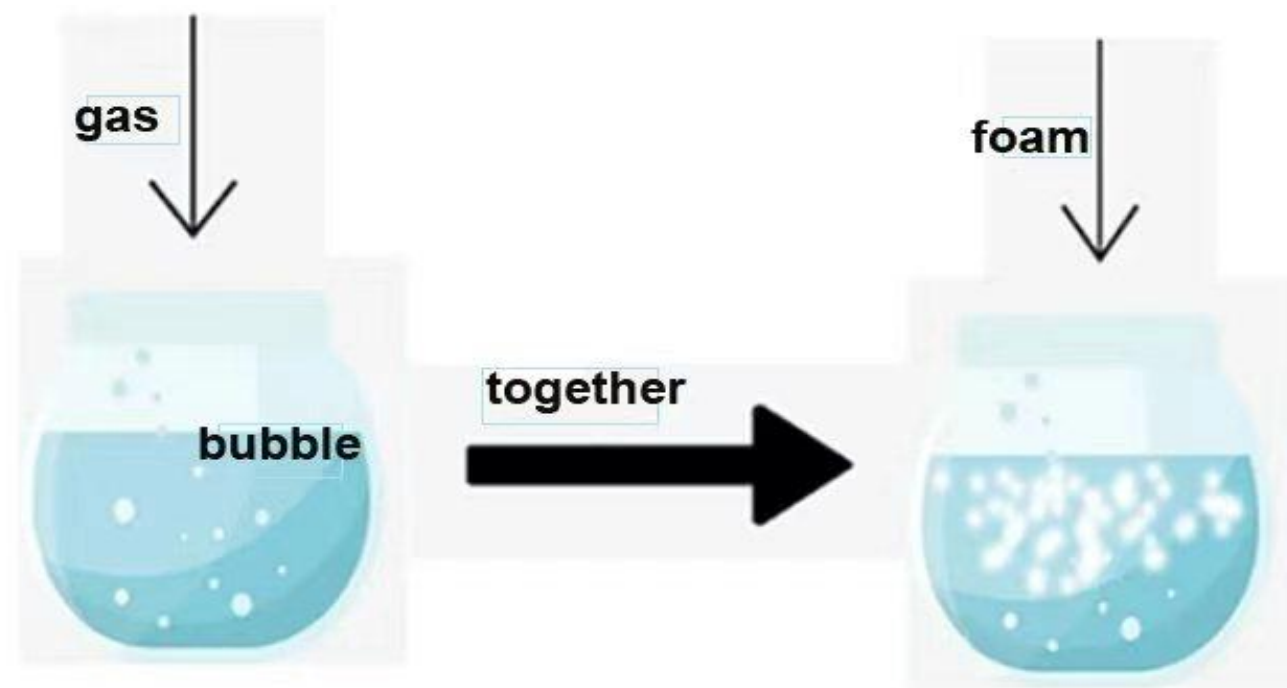
**With professional knowledge, rich experience and mature technical research and development team, ANTIFOAM company serves its wide range of anti foam agent solutions to the partners from different industries, including pulp and paper, textile, water treatment, oil and gas, construction, agriculture,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

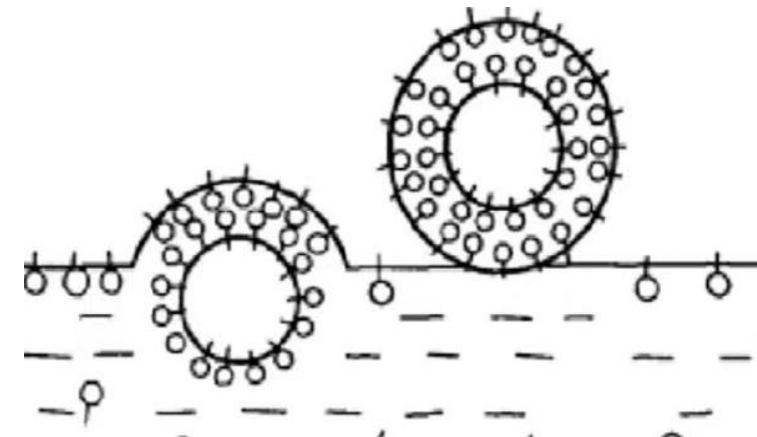




# Foam Formation



Foam is insoluble gas under external force, going into the liquid with low surface tension, which is caused by the isolation of the liquid. In a liquid foam, only one gas-liquid interfaces called a bubble. When multiple bubbles gather, they form foams.



## Stabilization

When the bubble rises up to the liquid surface, it is adsorbed by the surfactant, forming an adsorption layer. The adsorption layer will prevent the collision and merger between bubbles, and protect the bubble films, so the bubbles are not easy to break and form stable bubbles, then later form massive foams by getting together.



## What is Antifoam?

Antifoam refers to an agent having chemical and interfacial chemical defoamer effect.

It is a substance that can reduce the surface tension of water, solution, suspension, etc., prevent foam formation, or reduce or eliminate the original foam.

Water-based coatings and water-based inks are a new type of environmentally friendly products relative to traditional products. The low volatile organic compounds (VOCs) content of water-based coatings and inks makes them safer and more environmentally friendly for both production operators and users. However, as a composite emulsion, water-based coatings and water-based inks are easily affected by the process and the internal gas is mixed, because it is a viscous system, the gas can not be precipitated, resulting in the emergence of foam.

## Water-based coatings and Water-based inks



### Causes of foam:

1. The influence of surfactants such as additives
2. The process of grinding the color paste
3. Paint mixing process
4. Viscous system of paint and ink



## Adverse reactions caused by foam:

1. Foam can increase production time, reduce production efficiency and increase costs.
2. The foam produced during filling causes uneven quality of the barrel.
3. Foam will reduce the adhesion of paint and ink to the substrate.
4. Foam can cause appearance defects such as pinholes and fish eyes.



In the production process of water-based coatings and water-based inks, mineral oil defoamer, silicone defoamer or synthetic non-silicone defoamer can be added according to the product needs, and the low molecular substance that can be fully mixed with the solution can be used to make the surfactant solubilized and reduce its effective concentration. It has the advantages of safety and harmless, strong defoaming ability, good applicability and compatibility and will not affect the basic nature of the foaming system.







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