



Nanjing ANTIFOAM Environmental Technology Co., Ltd

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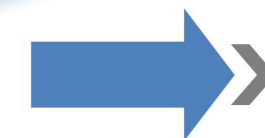
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At ANTIFOAM

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

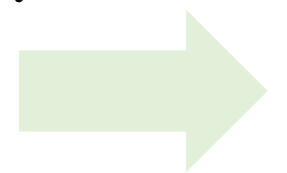


ANTIFOAM PROFILE

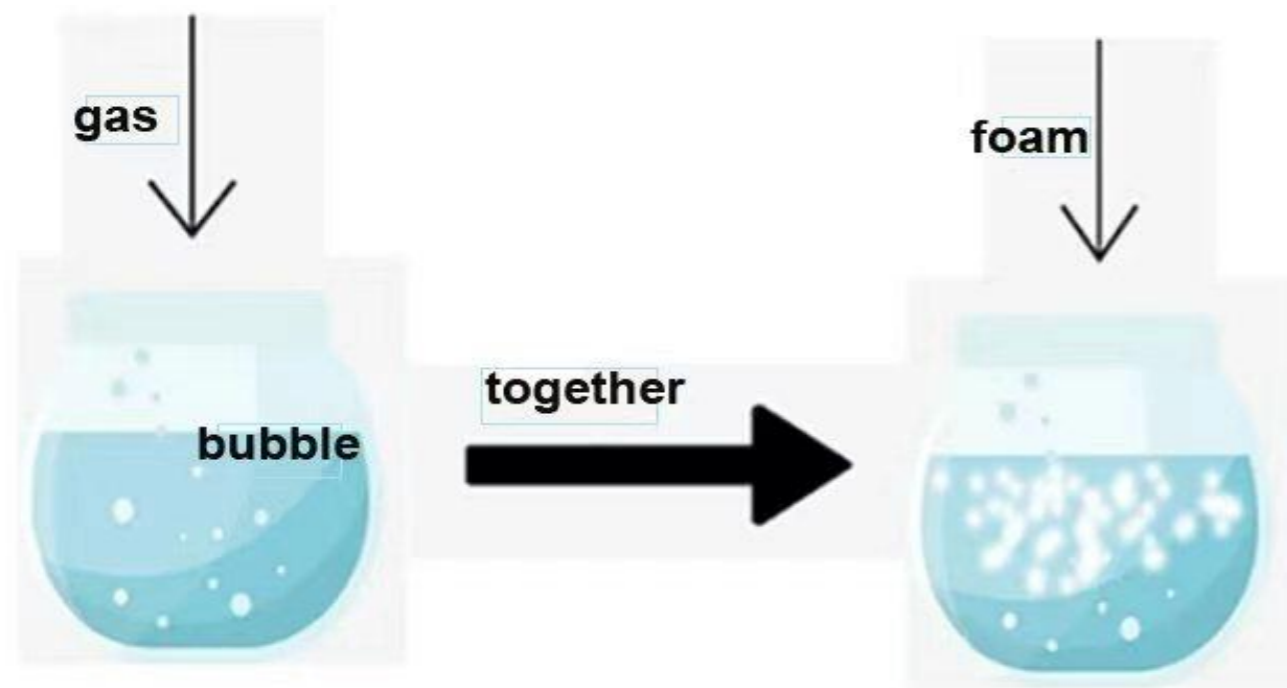
ANTIFOAM company is a growth oriented, diversified, defoamer chemicals manufacturer dedicated to innovative foam control solutions in a broad range of markets.

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.

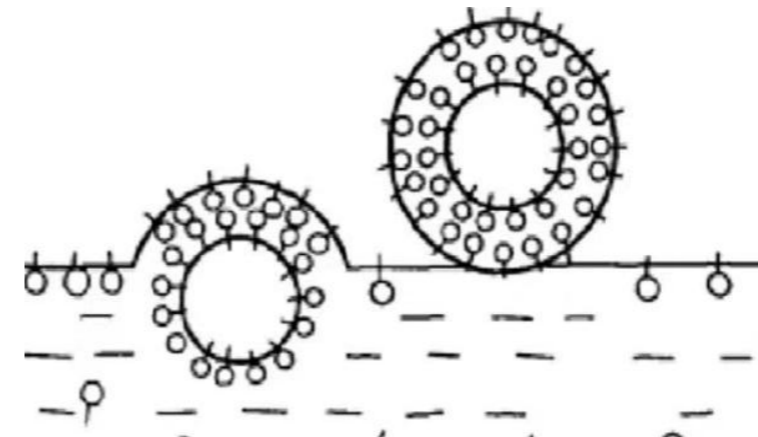
With experience spanning more than 20 years, the ANTIFOAM company is one of the major actors in the formulation of defoamers and antifoams for all industry sectors.



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.

Characteristics of fermentation defoamer:

It is a high performance, concentrated defoamer that has been scientifically formulated for use in a variety of fermentation processes and similar industrial applications, where foaming problems are inherent. It has been scientifically designed to optimize the use of technology and meet the needs of the fermentation industry.



This high performance defoamer product effectively controls, foams produced in a variety of fermentation process applications, including yeast, antibiotics, alcohol, glutamate, enzymes, proteins, pharmaceuticals, and more.



Our fermentation and compounds provide excellent foam control and help make food and beverage manufacturing, fermentation more efficient for aqueous and non-aqueous food-grade systems.

ANTIFOAM's processing aid solutions include Silicone, Non-Silicone and Hybrid emulsions and compounds.

It is normal to produce a small amount of foam during the fermentation process, but foaming will bring many unfavorable factors. When there are too many bubbles, the impact is more serious, which will cause various effects:

1. Reduce productivity,
2. Causes waste of raw materials;
3. As the chemical reaction products include gas, liquid, and foam, the gas will stay, which prolongs the reaction period.
4. Affect the respiration of bacteria,
5. The increase in foam causes fluid escape. A large amount of foam further penetrates into the shaft seal from the top of the tank. The lubricating oil at the shaft seal can start defoaming. The foam falling from the shaft seal often causes contamination by bacteria.
6. Pollute the environment. Therefore, the basic conditions for normal fermentation are ensured when controlling foam, so generally add defoamer for fermentation.

Excessive foam in fermentation processes can limit equipment capacity, increase production time and cost, diminish product quality and even impact safety. Therefore, antifoams are commonly used to control foam in fermentation applications during two stages – fermentation and product separation.



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