



Nanjing ANTIFOAM Environmental Technology Co., Ltd

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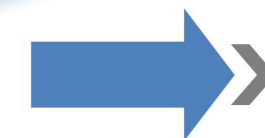
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At ANTIFOAM

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

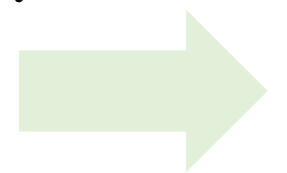


ANTIFOAM PROFILE

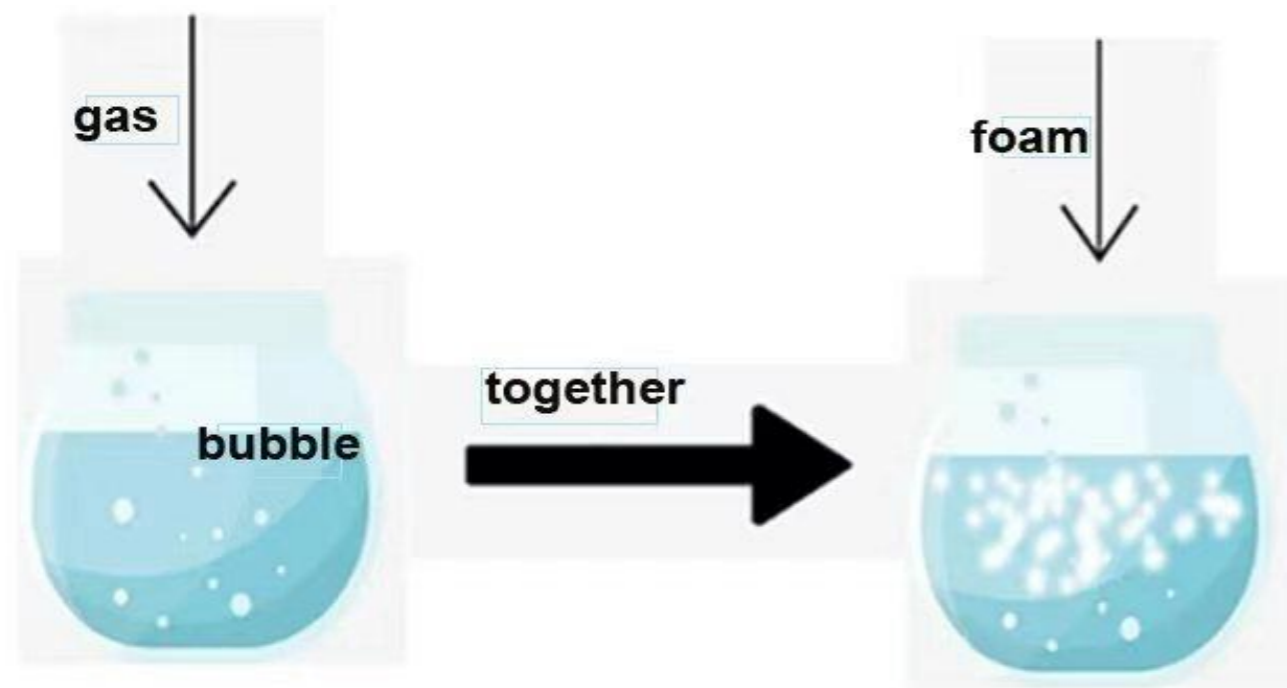
ANTIFOAM company is a growth oriented, diversified, defoamer chemicals manufacturer dedicated to innovative foam control solutions in a broad range of markets.

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.

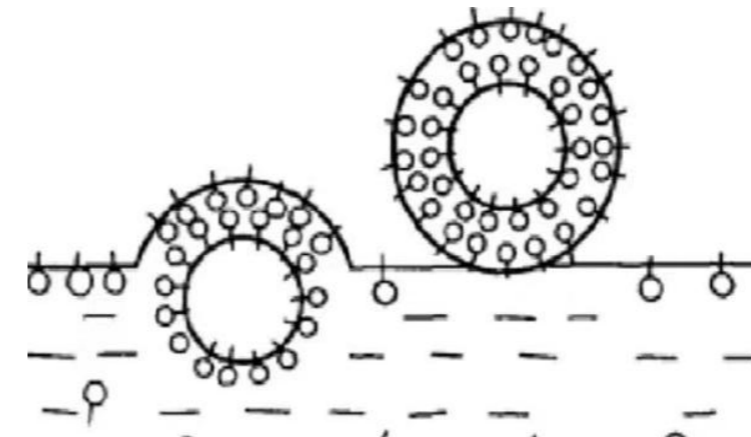
With experience spanning more than 20 years, the ANTIFOAM company is one of the major actors in the formulation of defoamers and antifoams for all industry sectors.



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.

Pulp and Paper

Today's high quality papers require a highly technical and accurate manufacturing process, which is complex and more or less has foam problems. If not eliminating the foam timely, it will affect the process, also lower the quality of final paper products.

The manufacturing of pulp and paper causes the formation of many chemicals like rosin, tall oil, and lignin, some of which have a strong tendency to foam during the pulping and paper making process.



Pulping In the pulp process, due to stirring, turbulence, oscillation, jet and other operations, a large number of foam will be generated, which will reduce the relative density of pulp and the washing efficiency. In addition, the bubbles make the pulp pressure sharply reduced, resulting in the release of gas, which may make the paper with pinholes, and then affect the subsequent process.

We have emulsion type silicone defoamer specially designed for black liquor formed during pulp process to control foam. Compared with the traditional defoamers, it has better durability, and a small amount of addition can play an excellent defoaming and anti-foaming effect.



White water is the aqueous solution that drains from a wet sheet of paper in paper making process. It can come from the wood, from the recycling of paper, and also from chemicals which are added during the paper process. So it contains a large number of substances that are surfactant, which can reduce the surface tension of water and lead to the formation of foam.

All agents for coating, such as dispersants, lubricants, water resistant agents and wetting agents, as well as lots of operations during paper sizing and coating process, they will be mixed with air to form foam.

Paper making is the processing of pulp fibers suspended in water into paper sheets. The foaming in this process is caused by the addition of a large number of fibers and pigments in pulping. Secondly, the raw material of paper pulping itself contains resin acid, resin acid is saponified in the alkaline pulping industry, and later the saponified resin acid enters the biological treatment process, which is easy to produce a large number of bubbles. Lastly, the entrained air and the stirring of the machine will also cause the formation of bubbles.

Excessive foam adversely affects production rates and paper quality. Therefore a complete line of defoamers is designed to effectively control foam in all pulp and paper processes, from pulp washing black liquid, paper machine wet end white water, sizing and coating to wastewater treatment.

Applied for:

Pulp Washing Black Liquid
Papermaking White Water
Papermaking Sizing & Coating
Papermaking Effluent Treatment



Papermaking



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AF-7017								√						
AF-711								√					√	
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