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At RICKMAN

**We create defoamer
chemistry for a better and
more sustainable future.**

RICKMAN

Rickman was found in 2013, engaged in production, research and development, sales and service of defoamer. The comprehensive annual capacity can reach 30,000 tons. These products are widely used in pulp and paper, textile, industrial water treatment, paint and ink, oil and gas, agriculture, food, fermentation, industrial cleaning, metal processing and other fields.



At RICKMAN, we create defoamer chemistry for a better and more sustainable future. We believe that our mission is to work closely with our customers, providing them with antifoaming agent solutions enable them to deliver their potential.

01

Our Purpose

To solve foam problem and improve efficiency through antifoam solutions.

02

Our Vision

To be the global leader in antifoam innovation and build a safer, healthier, more sustainable world.

03

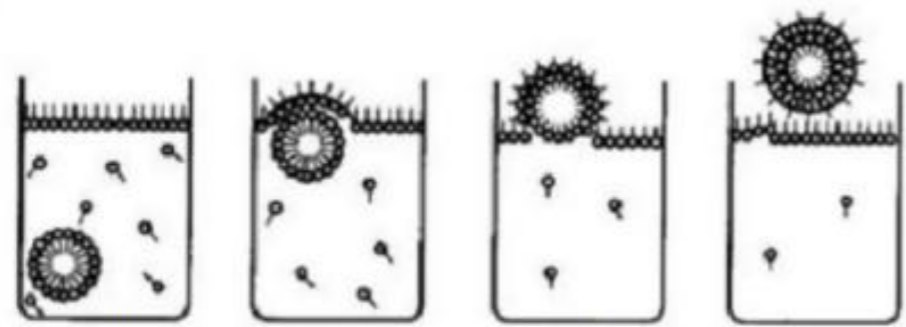
Mission

We strive to build a better and more sustainable world with our partners by solving chemistry problems with the right technology, experience and team.

Defoamers and Antifoams

Classifications of foam

- According to the life of the foam, it can be divided into "short foam" with a life span of a few seconds and "durable foam" that can maintain a few days without breaking under the condition of no interference;
- According to the balance between the force of foam generation and foam breaking, it can be divided into "unstable foam" that is constantly approaching the equilibrium state and "stable foam" that is hindered in the equilibrium process;
- According to the aggregation, it can be divided into "bubble dispersion system" with more liquid and less gas and "foam" with more gas and less liquid.



The rise of foaming in a surface activator

Generation Mechanism and Stability of Foam

Analysis of factors affecting the stability of foam :

(1) Low surface tension.

The lower the surface tension, the easier it is to form foam ;

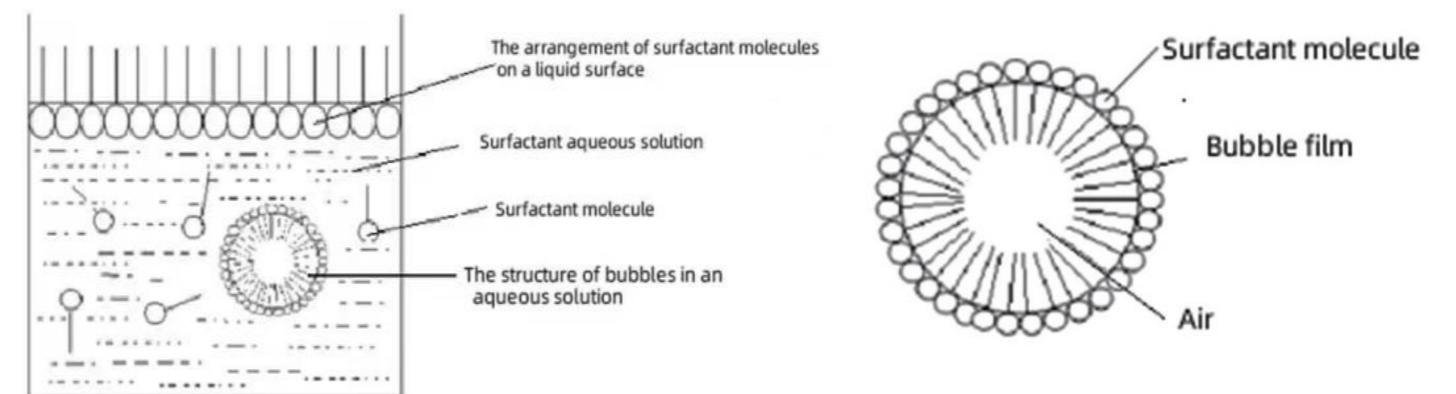
(2) Concentration of surfactants.

The higher concentration of surfactants, the more it accumulates on the surface of the foam, and the stronger the membrane ;

(3) Size of foam itself.

According to the formula $T=K/D^2$, T is the life of foam; D is the average diameter of foam; K is the correction coefficient.

As can be seen from the formula, the smaller the foam, the longer the life of the foam, the higher the stability.



What is foam?

Bubbles and foams are generated by surface action.

Due to the action of surface tension.

The membrane contracts into a ball, forming a bubble. Because of the lifting force, bubbles rise to the liquid surface. When a large amount of bubbles gather on the surface, a foam layer is formed.

ANTIFOAM SOLUTIONS FOR ALUMINA

Foam control agents in a wide range of applications

For many industries, excessive foam is a problem. It can cause vessels to overflow, interfere with processes and packaging, waste material and damage equipment.

Defoamers and Antifoams prevent unwanted foam formation and help solve these challenges efficiently.

Our lineup ranges from products based on silicone, polyether, compound, mineral oil, powder and other silicone free defoamers.



In the process of alumina bayer process, especially by Bayer method, a large amount of foam is often produced in the mineral slurry, which reduces the decomposition speed of sodium aluminate solution, weakens the efficiency of evaporator, causes the increase of sodium carbonate content in the solution, reduces the flow of sand material, affects the coordination of production and loading workers. The foaming in the seed-sorting process of the settling tank will lead to the failure of the desired classification effect, even the failure to use the settling tank for classification treatment, which is not in line with the production process standards.



RK-900P is a non silicone defoamer for alumina bayer process, mining.

RK-989 is a silicone defoamer, used in coal mining, paint and ink.

RK-360 is a silicone antifoaming agent, mainly used in mining.

RK-400S is a highly efficient defoamer for mining, oil and gas, industrial cleaning, agriculture etc.