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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

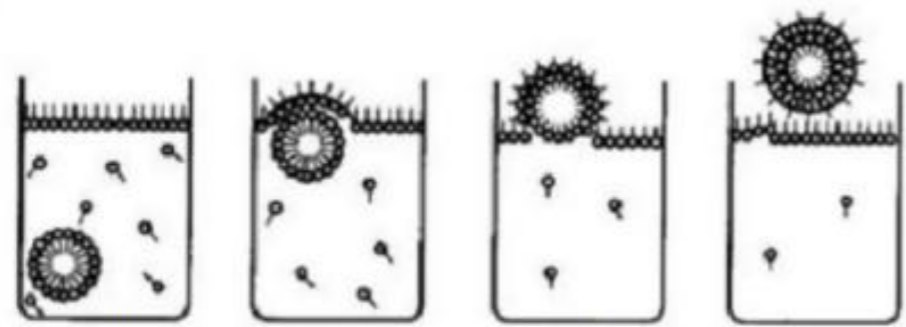
Mission

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 ;

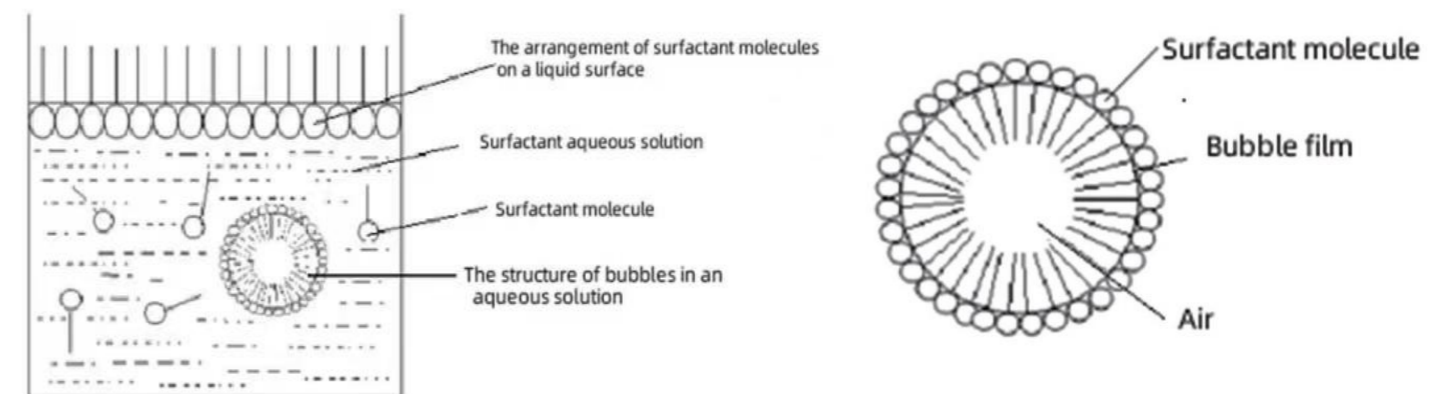
(2) Concentration of surfactants.

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.

Industrial cleaning

Industrial cleaning has characteristics of saving energy, saving water and improving product quality. However, in the cleaning process, foam can be the main reason for the plant to stop.



Defoamer is widely used in:

- Beer bottle cleaning
- Circuit board cleaning
- Metal surface cleaning
- Steel plate cleaning
- Spray cleaning
- Electroplating solution & Electroplating cleaning



Defoamer as an economic product, has an important role in industrial cleaning.

Rickman has a line of defoamer solutions to help customers to solve foam questions.



RK-900N is a high concentrated defoamer emulsion with productivity, and quality, including excellent break foam quickly.

RK-02P is a powder defoamer with excellent antifoaming performance in textile industry, water treatment, bottle cleaning and slurry.

RK-03P is a solid type of defoamer and works in a range of applications, including household , textile dyeing , industrial cleaning etc.

RK-8636 is a innovative silicone defoamer, which is ready to used in widely applications, such as textile, water treatment, fermentation, PCB cleaning.

RK-63B is a silicone compound defoamer as internal additive, and works in household detergent, pesticide, PCB cleaning, electronic cleaning and metal surface cleaning.

RK-0036 is a high antifoaming defoamer with 30% content. Low dosage can achieve optimized result in textile printing, general industrial, cooling water treatment, PCB cleaning, adhesive, glove production etc.

RK-700P is a silicone free based defoamer with breaking foam quickly in many industries.

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

RK-30N is an effective defoamer emulsion with long-term antifoaming performance in textile, oil field, detergent, agriculture, and construction.

RK-561 is used to knock down foam quickly in textile, water treatment, and industrial cleaning.