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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

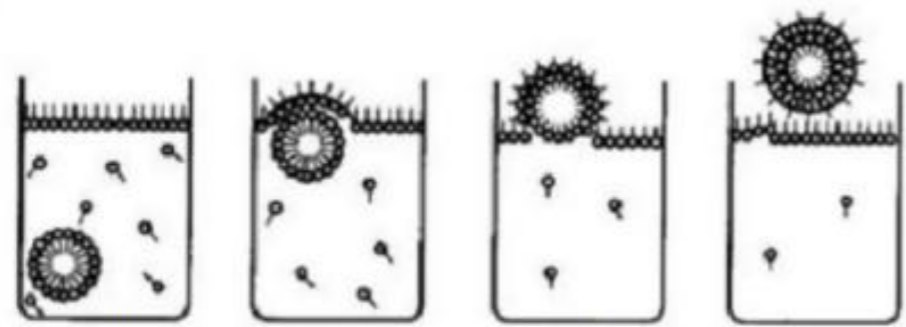
Mission

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 ;

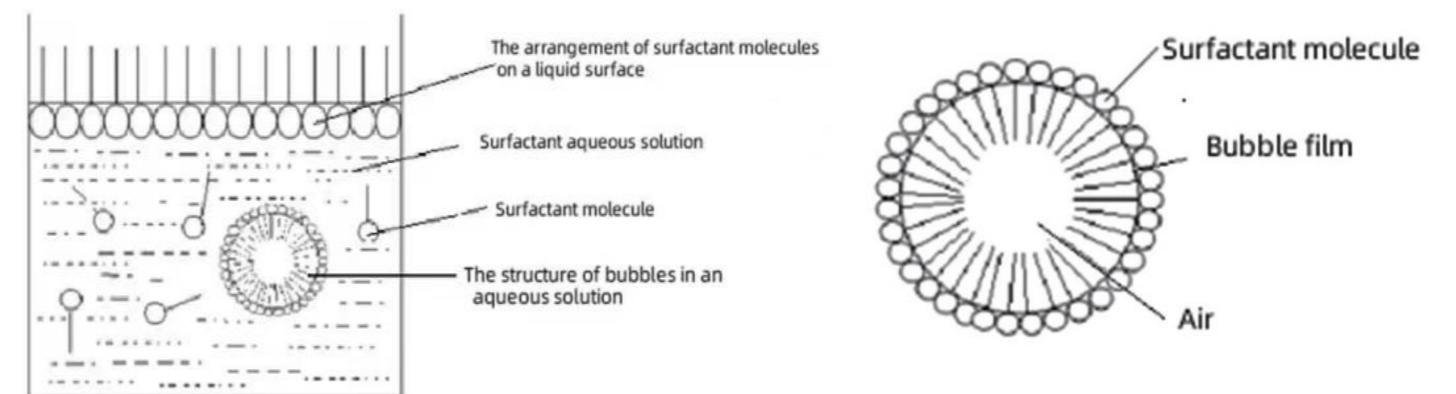
(2) Concentration of surfactants.

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 OIL AND GAS



Oil and gas exploration, oil drilling, oil and gas separation, delayed coking, refining, and transportation are carried out in extremely different conditions. Bubbles can reduce the productivity, and create the safety and environmental pollution.

Therefore, defoamers is necessary to add to reduce or eliminated to increase productivity, enhance quality.

Silicone based and non-silicone based antifoaming agent from Rickman optimize the production, refining, and separation of oil and natural gas to make sure that the petrochemical material can be extracted as purely and efficiently as possible.



RK-900N is a high concentrated defoamer emulsion with productivity, and quality, including excellent break foam quickly. 400s is a highly efficient defoamer for mining, oil and gas, industrial cleaning, agriculture etc.

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

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

RK-04P is a solid type foam control agent and works effectively in oil drilling, cement mortar, dry-mixed mortar, self--leveling cement and concrete.

RK-104P is a powder defoamer with great antifoaming and long-term foam control performance. It's widely used in petrochemical, and building materials.