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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 andservice of defoamer. The comprehensive annual capacity can reach 30,000 tons. These productsare 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.

#### 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.

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#### **Our Purpose**

To solve foam problem and improve efficiency through antifoam solutions.

#### **Our Vision**

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

# **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.

# Laundry and Household

## 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.

Consumers hope household detergents are full of functional , easy to handle and reduce water consumption. As very specialized and complex products, foam influence the products' efficiency and performance. This means that foam control agents is the necessary solutions for solving foam problem to make sure the high quality household detergents.



Rickman offers a line of antifoams for every class of household detergents. Compound antifoams, antifoam emulsions and powder antifoams are useful to powder detergent/ laundry powder/ washing powder and all kinds of liquid detergent.

### **RICKMAN Recommendation:**

RK-30N is an effective defoamer emulsion with long-term antifoaming performance in textile, oil field, detergent, agriculture, and construction.
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-06P is a granule type defoamer
specially designed to work for laundry
powder., construction, and other detergents.
RK-106P is a powder type of defoamer to
knock down unwanted foams in household
products and textile auxiliaries.

**RK-33S** is a water based antifoaming agent with small dosage to solve foam problems in laundry detergents, water treatment, and textile industry, etc.