Xiamen Rickman Chemical Technology Co., Ltd

Tel: +86 18750669524

Fax: 0595-82003557

Website: www.rickmanchemical.com

Email: info@rickmanchemical.com

Head office

Add: 1267-8 Qianpu South Road, Siming Distriet, Xiamen City Fujian China

Quanzhou Branch office

Add: Hengdali Building, Quanan North Road,Quanzhou , China

Factory

Add: Qitian Industrial Zone, Fujian, China

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.

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

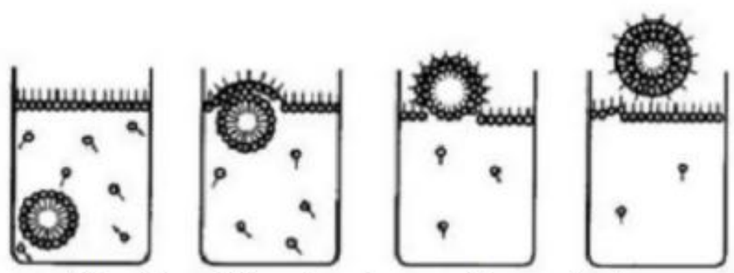
Mission

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 ;

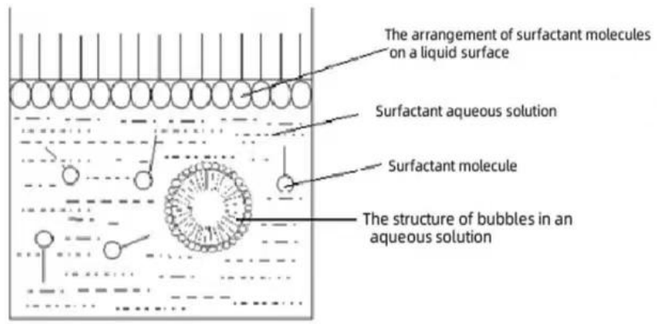
(2) Concentration of surfactants.

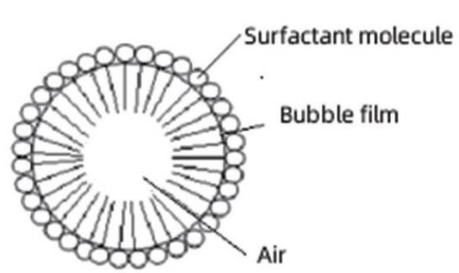
The higher concentration of surfactants,the more it accumulates on the surface of the foam, and the stronger the membrane ;

(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.



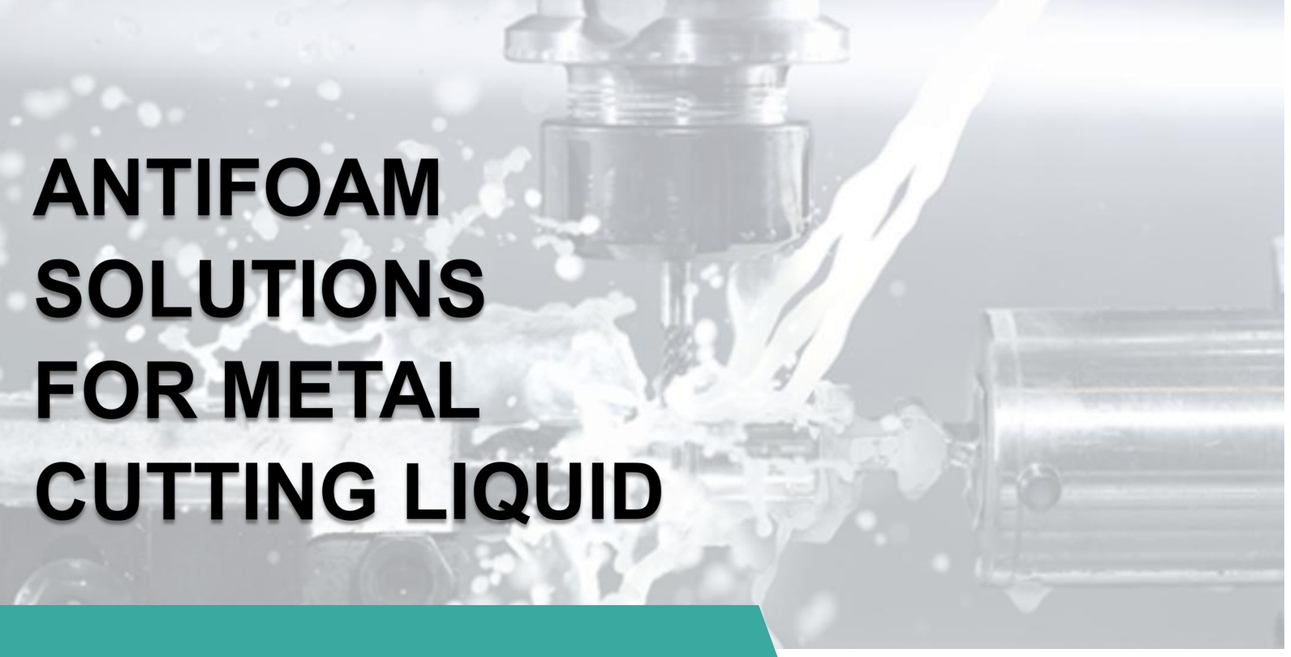


What is foam?

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 METAL CUTTING LIQUID

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.

Metal cutting liquid contains fully-synthetic cutting fluid, semi-synthetic cutting fluid, emulsified cutting fluid, and oil cutting fluid. It’s used to cool and lubricate the metal processing. Due to the high shear and functional additives, the foam is contributed. The unwanted foam can cause reservoir overflows, unplanned downtime and equipment damage.

As successfully cases, the silicone antifoaming agents have proven their good compatibility with they system and persistent foam suppression performance.

RK-701M is a high concentrated and high efficiency defoamer emulsions, with great compatibility with metal working system.

RK-7510M is a 10% active silicone antifoam emulsion, mainly used in semi-synthetic working cutting fluid, and waste water treatment.

RK-7670M is a strong silicone antifoaming agent surfactant, and break foam quickly in semi-synthetic metal cutting liquid and emulsion metal working liquid.

RK-7470M is a silicone based defoaming agent, worked in full synthetic and emulsion cutting liquid system, other circular shear system, fountain solution, and water glass.