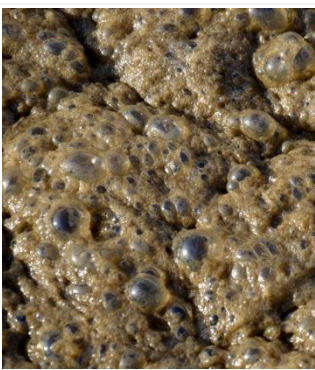




ANTIFOAM APPLICATION GUIDE

消泡剂使用指南

www.risechemical.com





What is ANTIFOAM?

Anti foam is a chemical additive that reduces and hinders the formation of foam in industrial process liquids. Strictly speaking, defoamer eliminate existing foam and anti-foamers prevent the formation of further foam.

In industrial processes, foams pose serious problems. They cause defects on surface coatings and prevent the efficient filling of containers. A variety of chemical formulae are available to prevent formation of foams.

Anti-foam is insoluble in the foaming medium and has surface active properties, with low viscosity and a facility to spread rapidly on foamy surfaces. It has affinity to the air-liquid surface where it destabilizes the foam lamellas. This causes rupture of the air bubbles and breakdown of surface foam. Entrained air bubbles are agglomerated, and the larger bubbles rise to the surface of the bulk liquid more quickly, hereby to solve the foam problems definitely.

Why ANTIFOAM?

Foam is a nuisance in production and can even lead to downtime. many companies use additives to prevent foaming.

“Anti-foam products are important in agriculture,Livestock farmers who keep cows or pigs have the problem of foaming in the manure pits beneath the stalls. It can become so bad that it rises above the grates. This is not only dirty, it also reduces the efficiency of such a pit.” available.

“In paper mill, power plant desulfurization,steel factory and food processing,ink and lubricant production, foam is the vital problem that often occurs and seriously affect , normal operation of the equipment, resulting in a decrease in product yield and quality.”



Find your industry

- Water treatment
- Sewage treatment
- Aerotank
- Biological fermentation
- Paper-making
- Glue
- Industry cleaning
- Power plant
- Desulfurization
- Steel factory
- Metal cutting fluid
- Oil & gas

WATER TREATMENT ANTIFOAM



Water treatment ANTIFOAM application in many fields: Municipal Sewage treatment, Farm sewage, Chemical cleaning sewage, Paper mill sewage, Aeration tank, Landfill water, Waste treatment plant, PCB manufacture, refinery factory, petroleum production, pharmaceutical factory.

Foams may result in unsuccessful seawater desalination, Excessive foam will remain on the desalination equipment, causing the equipment to be eroded, reducing the utilization rate of the desalination equipment and shortening the service life of the equipment.

Large amount of foam may overflow the desalination system, which will not only pollute the environment, but also lead to waste of water resources.

ANTIFOAM Characters:

- * LOW DOSAGE
- * LOW COD
- * DISPERSE IN WATER
- * NO EFFECT ON LIVE BACTERIA
- * GOOD COMPATIBILITY
- * FAST BREAK DEFOAMER
- * LONG-LASTING ANTI-FOAM

RECOMMENDED ITEM:

AF1810
AF1810-850
AF1610/AF1620 /AF1820

PAPER - MAKING ANTIFOAM



Foam is a vital problem that often occurs in the pulp and paper production process. In the production process, improper foam control will seriously affect the implementation of the pulp and paper process conditions and the normal operation of the equipment, resulting in a decrease in product yield and quality. In the pulping process, the generation and existence of foam will seriously hinder the normal progress of the washing, screening, bleaching and beating process of the pulp. In the papermaking process, the foam problem has a greater impact on the implementation of process conditions such as pulp flow and dehydration molding, and directly affects the quality of the paper.

ANTIFOAM Characters:

- *HIGH TEMPERATURE RESISTANCE, GOOD STABILITY
- *FAST AND LONG-LASTING DEFOAMER
- *GOOD WATER SOLUBILITY, EASY TO DISPERSE
- *LESS DOSAGE, SAVING PRODUCTION COST
- *EFFICIENT AND ENVIRONMENTALLY FRIENDLY ANTIFOAM
- *IMPROVE PAPER YIELD AND QUALITY

RECOMMENDED ITEM:

- AF1820
- AF1830
- AF2200
- AF3020
- AF3030

METAL PROCESSING/ STEEL ANTIFOAM



Variety of chemical additives are added during the production of steel plates, such as dispersants, accelerators, etc. Most of these additives are surfactants with foaming properties.

When the steel plate is cured, immersed in water or affected by the moisture content in the air, the steel fiber is damp, resulting in foaming. The temperature is too high to effect the auxiliary, resulting in the generation of foam.

Metal cutting fluid foam due to the mixing of materials and additives during manufacture, will cause the metal difficult to clean, there will be residues, and it is not easy to rinse, which will affect the cleaning progress and increase the cost.

ANTIFOAM Characters:

- * FICIENT AND DURABLE ANTIFOAM
- * LESS CONSUMPTION, COST SAVING
- * STABLE PERFORMANCE, NO CORROSION
- * HIGH TEMPERATURE AND SHEAR RESISTANCE DEFOAMER

RECOMMENDED ITEM:

- AF1820
- AF0711
- AF1024

OIL & GAS ANTIFOAM



Auxiliaries such as treatment agents will be added in oilfield exploitation. Most of these auxiliaries are surfactants, which have foaming properties and are easy to generate foam; In the high temperature environment, the treatment agent and other components in the oil field are decomposed and fermented into gases by high temperature, and these gases are difficult to escape from the surface, thus forming foam; In the process of oilfield exploitation, the increase of pressure will also lead to the generation of foam.

Foam problem also occurs in GAS EXTRACTION, OIL AND GAS SEPARATION, beneficiation and delayed coking step.

ANTIFOAM Characters:

- **STRONG ABILITY TO ELIMINATE FINE AIR BUBBLES
- *SUPPRESSED BUBBLES FOR A LONG TIME
- *CHEMICALLY STABLE
- *DOES NOT AFFECT SYSTEM OPERATION
- *DISPERSES QUICKLY, EASILY SOLUBLE IN WATER
- *LOW DOSAGE, HIGH COST PERFORMANCE

RECOMMENDED ITEM:

AF1820
AF1830
AF2200

POWER PLANT ANTIFOAM



With the circulation of desulfurization slurry, the slurry continuously absorbs the impurities such as surfactant, dust, heavy metal ions and oil droplets in the flue gas, and the surface tension difference between the surface and inner solution increases;

Oxidizing air enters the liquid phase and forms bubbles on the liquid surface. When the viscosity of the slurry is large, the viscous force hinders the liquid flow in the liquid film, and the foam is relatively stable

ANTIFOAM Characters:

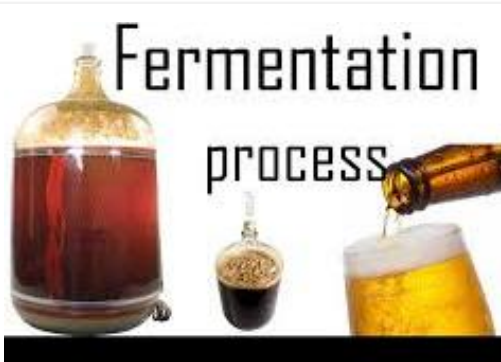
- * LOW DOSAGE
- * QUICK & LONG ANTIFOAM
- * GOOD QUALITY PLASTER
- * NO IMPACT ON SLURRY LIFETIME
- * ACID AND ALKALI RESISTANCE, ELECTROLYTE RESISTANCE, STABLE IN HARD WATER

RECOMMENDED ITEM:

AF1820
AF1830
AF2200

AGRICULTURE ANTIFOAM

FERMENTATION



FERMENTATION



Industrial fermentation surfactant can easily lead to the generation of foam. In biological fermentation, a large amount of air is mixed into the industrial fermentation process due to the high-speed vibration of the machine, resulting in foam. The sterilization quality of the medium, which hinders the growth of microorganisms, makes the seed mycelium autolyze and produces a lot of foam.

High temperature environment makes bacteria more active, which leads to the foam.

For fertilizer, the foam is caused by a large amount of air which is brought in due to shearing, grinding, improper selection of surfactant or excessive dosage.

ANTIFOAM Characters:

- * FAST DEFOAMING AND LONG-LASTING FOAM SUPPRESSION
- * CHEMICAL PROPERTIES ARE STABLE AND HAVE NO EFFECT ON THE FERMENTATION SYSTEM
- * NO ADVERSE EFFECT ON FERMENTATION BACTERIA
- * GOOD HYDROPHILICITY, EASY TO SPREAD

RECOMMENDED ITEM:

- water base AF2200
- oil base AF2100

About Company



Shenyang Rise Surface Technologies Co.,Ltd. was established in 2004, located in northeast of China, Shenyang city. Pass ISO9001 quality management system and ISO14001 environmental management system, we are high-tech enterprise focus on surface treatment technology.

Our main products are industrial defoamer, industrial detergent and disinfectant. With professional master degree engineers R & D team, our products have been widely used in automobile, steel cleaning, electric power, chemical industry, petroleum, paper-making, textile and other fields.

"Focus on customer demands, care for employees' feeling" is our faith, we will make our efforts to create a "people-oriented" enterprise. Hope our environmentally-friendly products will play an increasingly important role, and grow with our clients together.

To become a sustainable and reliable professional surface treatment technology company

Our Service Concept

Respect each other, cooperate for double win

Our Aim







To provide customers with cost-effective solutions and share the joy of growth








PACKAGING

200-kg drum, 1000-kg plastic tank, net weight.

Sample is available in 250mL&500mL containers.

Picture	<i>Description of goods</i>	
图片	货品描述	
	<p>AF1152 defoamer white milky liquid</p>	<p>food grade water treatment</p>
	<p>AF1810 defoamer white milky liquid</p>	<p>gas filtration, Desulfurization detergents production Aerotank, pesticides sewage treatment foam problem</p>
	<p>AF1830 defoamer white milky liquid</p>	<p>paper pulping Gas filtration Water treatment Metal working fluid additive detergents</p>
	<p>AF-2045S defoamer colorless liquid</p>	<p>paper making machine cutting fluid system Industrial cleaning system Lubricants, detergents</p>
	<p>AF-3210 defoamer colorless liquid</p>	<p>paper making machine biological fermentation detergents lubricants high temperature Systems</p>
	<p>AF-2070 defoamer colorless liquid</p>	<p>steel Industrial cleaning system Lubricants, detergents high temperature Systems</p>

	<p>AF-2200 defoamer colorless liquid</p>	<p>paper making machine Industrial cleaning system Lubricants, detergents high temperature Systems</p>
	<p>AF-3030 paper defoamer white milky emulsion</p>	<p>white milky liquid especially for paper making machine forming wire</p>
	<p>AF-0711 defoamer white milky emulsion</p>	<p>Antifreeze/coolant system Semi-fully synthetic/emulsion cutting fluid system Industrial cleaning system Other cyclic shear systems</p>
	<p>AF-4TCB1 paint defoamer white to light yellow liquid</p>	<p>Water-based industrial paint water-based furniture paint formula Other water-based coating systems</p>
	<p>AF-4D90 paint defoamer white milky liquid</p>	<p>Coatings and inks Latex paint Emulsified coatings such as acrylic acid, vinyl acetate, vinyl acetate, styrene acrylic, copolymer</p>

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www.risechemical.com

