



安徽艾约塔硅油有限公司

Iota Silicone Oil(Anhui) Co.,Ltd.

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### Special defoamer XPJ-200A for desulfurization

1. Aiming at the field of thermal power generation, xpc-20a products produced by the company are applied to the production process of flue gas desulfurization. The specific application ways and purposes are as follows:

At present, most of the thermal power plants in our country adopt wet desulfurization. During the operation of the desulfurization unit, the following factors will cause the slurry foaming of the absorption tower, which will lead to the overflow of the absorption tower.

- (1) high speed reverse mixing of gas and liquid in absorption tower
- (2) the imported flue gas dust exceeds the standard, such as impurities containing a large amount of inert substances
- (3) poor coal quality, insufficient combustion of boiler or oil feeding of boiler to make the flue gas at the inlet oily
- (4) the increase of heavy metal ions in the slurry of absorption tower causes the increase of slurry surface tension
- (5) limestone contains excessive MgO, which not only affects desulfurization efficiency, but also reacts with sulfate ion

The bubble in the absorber caused by the above factors will cause a large amount of neutralizing substances and cooling water to drain, and at the same time, significantly reduce the reaction speed and product recovery rate, seriously affect the operation process and desulfurization efficiency. At the same time, a large amount of spillover of foam will pollute the field environment, and will also bring significant security risks and power losses to the motor room under the cold tower.

If defoamer is used, it can effectively improve the application efficiency of cooling water and absorbent in desulfurization tower, significantly reduce the opening frequency and number of circulation pump, greatly improve the output of sulfate, and reduce the cost of on-site manual maintenance. The comprehensive benefit can be significantly improved.

Because the desulfurizer is needed for flue gas desulphurization in thermal power plants, the desulfurizer is limestone or limestone slurry. After practical trial and laboratory test, the foaming effect of ordinary defoamer on the absorber slurry of the desulfurization tower is not obvious, and the performance is different under the specific foaming environment.



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## 2. Application of defoamer in seawater as circulating water

During the production of sea water, there are a large number of shellfish and seaweed organisms in the seawater. During the circulation of water, due to the suitable ambient temperature, the large number of organisms can easily block up the pipes. Chlorine is added into the circulating water to produce hypochloric acid to kill the shellfish. It's marine pollution. The XPC-20B products produced by our company can effectively remove such bubbles, thus effectively settling pollutants and avoiding pollution to the ocean.

## 3, packaging

Our company adopts 25kg, 50kg, 200kg plastic buckets and 200kg inner coated iron buckets for packaging

## 4. Storage and transportation

It is suitable for room temperature storage, not near the heat source, not exposed to the sun, not adding acid, alkali, salt and other substances in the defoamer. It can't be stored for a long time after being diluted with water and won't be layered within one year of storage. If there is layered demulsification beyond this period, it can be stirred evenly before use without affecting the use effect and transported as non dangerous goods.

## 5. Use safety

Before using the product in batches, the customer shall carefully read the product manual and conduct necessary defoaming test to ensure the safety of use. If you have any questions about the products, please contact us and our company will serve you wholeheartedly.

This material is based on our current knowledge and experience. Therefore, this material shall not be used to replace any test required by you when you use our products on a large scale or in a batch to fully meet your characteristics. For the loss caused by the product does not meet the sales quality index, the company only undertakes to return the payment or replace the product. Our suggestions for application or use are for reference only.

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