



## TECHNICAL DATA SHEET

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### Product Description: Papermaking Lubricant Liquid

#### 【Product Characteristics】

This product is a white emulsion emulsified with alkylene ketone dimer (AKD for short) and cationic surfactant as raw materials through homogenization process. It is suitable for the reaction sizing agent manufactured under the condition of medium alkaline (pH value 7.5 ~ 8.5). It is widely used in the production of medium and high grade culture paper, photographic base paper, fruit bag paper, wrapping paper and paperboard. It can improve the whiteness, smoothness and evenness of the paper, and can significantly improve the printing adaptability and ink absorption of the paper, and adapt to the development of inkjet technology. At the same time reduce white water load, reduce energy consumption, improve the operating environment.

#### 【Technical Parameters】

Parameters	standard	Remark
Appearance	White milky liquid	Visual
Solid content%	15±1	GB
Viscosity(cps)	≤70	Rotary viscometer 25°C
PH Value	2-6	PH meter
Ionicity	Cationic	

#### 【Product Performance】

- Significantly improve paper strength, toughness, whiteness and opacity, good optical properties, chemical stability and printability;
- High tolerance of calcium carbonate filler (10 ~ 30%), can save fiber raw materials, reduce pulp consumption;
- Without aluminum sulfate, soluble solids in white water can be greatly reduced and closed circulation can be reduced to reduce environmental pollution and save water;
- Because it is made under alkaline conditions, it can reduce the corrosion of equipment and prolong the service life of net cloth and blanket;
- Small foam, no dirt, clean the wet part system of the paper machine, improve the running performance of the paper machine.

#### 【Usage】

- AKD emulsion is directly added into the slurry dispensing tank according to a certain amount, or continuously added into the slurry mixing tank, high box or slurry pipe with a metering pump. Generally, the best effect is achieved when adding into the slurry mixing tank. Reference dosage: Generally 0.5 ~ 2.0% according to sizing requirements.



### 【Notes】

- The pH value of the net front box should be controlled between 7.5 and 8.5; When the Zeta potential of the fluidized box is between 3 and 5mv, the retention rate of the first passage and the sizing efficiency of AKD can be improved.
- Reasonable temperature rise curve can improve the sizing efficiency and curing speed of AKD;
- If it is found that sizing agent emulsion is stratified, thickened and a large amount of gas is released, it should be stopped immediately.
- Add 30-50ppm fungicide in the slurry pool or white water at high temperature in summer.

### 【Package and Store】

- This product should be sealed in a cool place (5°C ~ 30°C), and is strictly prohibited from exposure and freezing; The shelf life is 6 months.
- 200kg, 1000kg plastic bucket packaging.