



PAPERTEX AS-2000 Emulsion Flocculants

Description

PAPERTEX AS-2000 flocculants are ultra high molecular weight flocculants of differing charges and structures that work effectively as sludge conditioning agents and aid water clarification processes across a wide variety of industries. These products are especially effective in those applications where extreme high molecular weight products are needed such as dissolved air flotation, settling and pulp liquor clarification. The chemistry range available ensures there is a product suitable for each individual application.

Properties

Products	AS-2022	AS-2024	AS-2026	AS-2028
Appearance	← Opaque liquid →			
Charge (mol%)	10	20	30	40
Molecular Weight	← Very High Molecular Weight →			
Specific Gravity (25°C)	← 1.00 – 1.10 →			
Freezing Point (°C)	← -18 →			
Flash Point, closed cup (°C)	← > 93 →			
Bulk Viscosity (mPa.s)	500 - 2500	500 - 2500	500 - 2500	1500 - 3000
Solution Viscosity (mPa.s)				
0.50%	350	525	625	500
1.00%	800	1150	1250	1150
1.50%	1250	1750	1850	1800

Application

Prior to initial use, the AS-2000 series emulsion flocculants should be agitated thoroughly via a drum/IBC stirrer or a recirculation pump to ensure uniformity. Recommended working solutions are 0.5% concentration, however, stock solutions can be prepared up to 1% via an automated make down unit or on a batch basis. Solutions should be aged 30 minutes for maximum effectiveness. High quality make up water should be used. Secondary dilution water should be added to the stock solution prior to the addition point to improve mixing with the substrate. A ratio of at least 10:1 is recommended. A distributing header or distribution ring is recommended in the treatment stream. Avoid centrifugal pumps for polymer transfer.

For more information on dosages and applications consult your local Papertex representative

PRODUCT INFORMATION



Health & Safety

The series of PAPERTEX AS-2000 flocculants have estimated acute oral (rat) LD50, acute dermal (rabbit) LD50 and acute 4-hour inhalation (rat) LC50 values of > 5,000mg/kg, >2,000 mg/kg and >20mg/L respectively. Direct contact with these materials may cause moderate skin and mild eye irritation. Overexposure to vapour may cause respiratory tract irritation and central nervous system depression.

Before handling these materials read the corresponding Papertex Material Safety Data Sheet (MSDS) for safety and health data.

Storage and handling

Rubber gloves, goggles and protective clothing are recommended for use while handling these products.

Recommended materials of construction include stainless steel, fiberglass, plastic, and glass or epoxylined vessels. Do not use iron, copper or aluminum. The shelf life of these products is 6 months when stored at temperatures between 5 - 30°C. For best results avoid freezing. If the product freezes, thaw completely and mix prior to use.

Spilled polymer is very slippery and should be absorbed onto an inert material and collected prior to thoroughly flushing with water.

Packaging and shipping

PAPERTEX AS-2000 flocculants are packaged and shipped in 200 litre drums, 1000 litre IBCs and bulk quantities.