

# Kemfloc 6294

## INTRODUCTION

**KEMFLOC 6294** is a high molecular weight synthetic flocculent designed specifically for application in raw water, wastewater & different aqueous media for solid-liquid separation.

**KEMFLOC 6294** is a co-polymer of acrylamide & solution acrylate.

## PROPERTIES

- ◆ Appearance: White, almost odorless powder.
- ◆ Chemical Composition: Polyacrylamide derivative.
- ◆ pH (0.5% solution): 6.5-8.5
- ◆ Ionic Character: Anionic.
- ◆ Melting Point Range: Thermal decomposition can take place above 200°C
- ◆ Boiling Point Range: Not Applicable.
- ◆ Vapour Pressure: Negligible.
- ◆ Viscosity 0.5% solution: >2000 cps @ 10 RPM spindle no 2

## AREAS OF APPLICATION

- ◆ As a flocculant for rapid setting of solids in raw water, wastewater, sewage treatment, etc.
- ◆ As a Retention aid for fine fibers.
- ◆ For Control of BOD / COD.
- ◆ To improve, the clarity of supernatant liquid & sludge compaction.
- ◆ As filter Aid

## METHOD OF APPLICATION

KEMFLOC 6294 is to be administered in small dosages ranging from 0.1-10 ppm. in the form of dilute solution. Recommended & most suitable dilution is 0.1%.

## DISSOLVING KEMFLOC 6294 POWDER

It delivered in powder form and needs to be dissolved in water before use.

This is done in three stages:

- ◆ Wetting.
- ◆ Dissolving to stock concentration.
- ◆ Dilution to feed concentration.

The aim of wetting is to bring the individual solid Kemfloc particles in contact with water. To ensure that this succeeds, it is best to employ suitable dispersion equipment, e.g. an automatic dissolving apparatus using the ejection principle. Should such equipment not be available, a dissolving funnel, or in a wetted state.

The vessel is then filled to achieve the proper stock solution concentration, i.e. 0.3 – 1% depending on the Kemfloc type. The time needed for the dissolving process is 30-60 minutes, depending on the product.

The stock solution is then diluted to a 0.05 - 0.1% feed solution.

## ADVANTAGES

- ◆ Retention time is low.
- ◆ Energy consumption is less.
- ◆ Treated water can be easily discharged or re-used for other applications.

## HANDLING

Use only in area provided with appropriate exhaust ventilation. Avoid dust formation. Use personal protective equipment.

## STORAGE

Keep tightly closed in a dry and cool place.

**PACKING:** 25 kgs, 50 kgs bags.

**SELF LIFE:** 12 Months