

ZI-CHEM 5D10

Anionic Polyacrylamide

HIGHLIGHTS

ZI-CHEM 5D10 is part of a group of advanced polymers which are designed to enhance thickener performance and tailing disposal by providing a strong aggregate structure and tolerance of flux variations, resulting in superior solids liquids separation. Better overflow clarity, high underflow density and maximized water recovery are delivered together with a low relative yield stress to ease both raking and pumping.

The ZI-CHEM 5D10 can maximise economic and environmental benefits where superior dewatering is required.

TYPICAL PROPERTIES

- Appearance: Off white, or yellowish granular
- Bulk density: 600 – 800
- pH at 0.5% : 6.0 – 8.0
- Viscosity, cps:
 - 460 @ 0.1%
 - 960 @ 0.25%
 - 8300 @ 0.5%x
- Mesh Size 20 -80: 90% min

PRIMARY APPLICATIONS

ZI-CHEM 5D10 dosage rates is vary depending on the application, the mineral type and granulometry and the pH of the system. Usual dosages would be in the 2 – 200 g/tonne of dry substrate flocculated.

FEEDING & CONTROL

ZI-CHEM 5D10 should be diluted and then injected to the system using a chemical metering pump with liquid end constructed of suitable materials. These include PVC, polypropylene, Viton, Teflon and stainless steel.

Recommended solution concentrations:

Stock solution: 0.25 – 0.5 % max.

Feed solution: 0.025 – 0.1 % max.

Your ZI-CHEM technical field specialist will recommend the most appropriate dosage for your particular application on an ongoing basis.

HANDLING & SAFETY

ZI-CHEM maintains a database of safety data sheets (SDS) on all our products.

These contain health & safety information to assist in the safe and appropriate chemical handling, ensuring the protection of personnel. offer detailed site surveys to review your situation

THE BENEFITS

- Economical to use – significantly lower dosage
- Fast settling rates
- Achieve high solids removal efficiencies
- Easily soluble in water; dissolves rapidly
- Effective over a wide pH range; does not alter the system pH
- Eliminates or reduces use of inorganic salts.
- Compliance with sanitary regulation
- Lower energy consumption of the thickening
- The dewatered sludge is in a form for easy transport, storage, or disposal.

COMMON APPLICATIONS

- Paste thickening
- Mine Backfill
- CCD's
- Base-metal and gold tailings
- Base-metal and gold concentrates
- Mineral Sand slimes

PACKAGING

- 25 kg nett plastic bags
- Intermediate big bags or bulk container

