

## ZI-CHEM 5A18 Coagulant

### HIGHLIGHTS

ZI-CHEM 5A18 coagulant is a highly charged organic cationic polymer coagulant.

ZI-CHEM 5A18 is a very effective primary coagulant for water and wastewater clarification in industrial, mining and minerals processing applications. It can be used to increase the weight of microfloc when used in conjunction with inorganic coagulants. This is particularly useful in low turbidity in influent water and effluent wastewater clarification applications.

ZI-CHEM 5A18 coagulant is also effective in breaking the emulsion in greasy tower treatment, save-all clarification, and use as a retention or drainage aid. For optimum results, ZI-CHEM 5A18 should be added to the system at a point of sufficient turbulence to ensure good initial dispersion and adequate mixing. This point will be prior to the clarifier or filters and ideally, the turbulent flow zone at the addition point should be followed by a quiescent zone.

### TYPICAL PROPERTIES

- Appearance : Clear to light yellow liquid
- Specific gravity: 1.0 – 1.1
- pH (neat) 4.0 – 7.0
- Ionic charge: Cationic
- Flash point: < 100°C

### FEEDING AND CONTROL

Typical addition levels for raw water clarification are 1 - 10 g/ton (ppm), while levels for industrial wastewater treatment range from 5 - 1000 g/ton (ppm). Specific recommendations will be provided by your ZI-TECHASIA technical representative after studying your system.

### TECHNICAL SERVICE

Advice and assistance in the running of laboratory and plant tests to select the correct coagulant and determine the best application is given by representatives of ZI-CHEM, who are experienced in minerals processing applications.

### COMMON APPLICATIONS

- Water clarification.
- Primary Clarifier & Secondary Clarifier
- Sludge Dewatering
- Demulsification
- Belt filter, centrifuge and screw press dewatering
- Filtration of coal fines
- Dissolved air flotation
- Filtration
- Greasy tower
- Latex coagulation

### THE BENEFITS

- Low cost - effective at low dosage levels
- Easy to use - simplifies dilution, feed and handling
- Increase flow rate due to heavier, stronger flocs.
- Reduction or elimination of inorganic primary coagulants.
- Reduction in sludge volumes produced in the system.
- Decrease in pH sensitivity of coagulation /flocculation process and does not alter the system pH
- Resistant to chlorine

### HANDLING & SAFETY

ZI-TECHASIA maintains a database of material safety data sheets (MSDS) on all our products. These contain health & safety information to assist in the safe and appropriate chemical handling, ensuring the protection of personnel

### PACKAGING

Available in 25L pails, 205L drums or 1,050L IBC's

