

ZI-CHEM 59A5 Flocculant DPAM

HIGHLIGHTS

ZI-CHEM 59A5 is a highly effective high molecular weight medium charge anionic polyacrylamide flocculant supplied as a free flowing granular powder. ZI-CHEM 59A5 flocculant is highly effective in condition solids for dewatering operations and aid water clarification processes in various industrial, mining and minerals processing applications. This show exceptional performance in liquid-solid separations in a wide range of conditions.

TYPICAL PROPERTIES

- Appearance : White Free-flowing powder
- Specific gravity: 0.55 – 0.70
- pH (1%) 3.5 – 5.5
- Ionic charge: Medium anionic
- Flash point: None

APPLICATIONS

ZI-CHEM 59A5 solution concentrations can be made from 0.05 to 0.5% with water. These can be prepared via an automated make down unit or on a batch basis

ZI-CHEM 59A5 should be added slowly to clean water and stirred for at least 60 minutes at a speed not exceeding 450 RPM for maximum effectiveness; or with a compressed air agitator. For best results, the solution should be further diluted in-line at ratio 10:1 prior to the addition point. Details on preparation and feeding can be obtained from ZI-CHEM Mining Representative

FEEDING AND CONTROL

When used as a flocculant or a coagulant aid, typical addition levels range between 0.1 - 100 g/ton (ppm). For sludge conditioning, typical treatment levels range between 0.2 – 5.0 g/ton (ppm) of dry solids. Addition of ZI-CHEM 59A5 to the point of application should be with a variable speed positive displacement chemical metering pump. Your ZI-TECHASIA technical representative will provide specific recommendations

COMMON APPLICATIONS

- Primary & Secondary Clarifier
- Base metal sulphide and oxide concentrates thickening, Sludge Dewatering and filtration
- Sedimentation of coal tailings
- Sedimentation (Deep Cone Thickening) of coal fines
- Filtration of coal fines
- Sedimentation and filtration of metal hydroxides
- Sedimentation of fine sands and clays
- Tailings dewatering
- Brine clarification
- Clarification of 'neutral' stage electrolytic zinc pulps
- Sedimentation of iron oxides in copper/cobalt leach systems and clarification of pregnant
- Liquor and Tailing
- Sedimentation of fine sands and clays.
- Clarification of acid leach pulp (copper)
- Sulphur extraction.
- Phosphate slimes thickening
- Sedimentation of diamond slimes

THE BENEFITS

- Economical to use – significantly lower dosage levels
- 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

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 25kg bags & 800kg Big Bags

TECHNICAL SERVICE

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

