

ZI-CHEM 5C10 Dewatering Aids

HIGHLIGHTS

ZI-CHEM 5C10 dewatering aids is used principally to reduce cake moisture in the filtration of mineral slurries such as sulfide flotation concentrates, iron ore concentrates and coal concentrates and tailings.

ZI-CHEM 5C10 dewatering aids are also useful in other mineral dressing applications as leaching and wetting aids. In leaching operations, they increase the penetration rate of the leach solution, reducing leaching times and improving extraction. In tabling and spiral concentration, small amounts of ZI-CHEM 5C10 dewatering aid in the water can improve the separation efficiency by improving slime dispersion and decreasing skin flotation as a result of improved wetting of the minerals.

TYPICAL PROPERTIES

- Appearance: Colorless liquid
- Specific gravity: 1.0 – 1.1
- pH : 5.0 – 7.0
- Flash point: >101.7 C
- Freeze Point: None

PRIMARY APPLICATIONS

ZI-CHEM 5C10 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 range 0.05 to 1.0 lb/ton solids (25 to 500 g/metric ton).

FEEDING & CONTROL

ZI-CHEM 5C10 dewatering aid can be fed to the circuit full-strength or can be diluted. 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.

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

THE BENEFITS

- Decreased thermal drying costs
- Reduced freight charges associated with drier mineral concentrates
- Improved solids handleability
- Ease of filter cake discharge
- Prolonged filter cloth life

COMMON APPLICATIONS

- Minerals processing industry

PACKAGING

- 220 kg Drums
- 1000 kg IBC Tanks

HANDLING & SAFETY

ZI-CHEM 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. offer detailed site surveys to review your situation

