

ZI-CHEM 51A0 Scale Deposit Control

HIGHLIGHTS

ZI-CHEM 51A0 antiscalant is a liquid deposit control agent designed to minimize calcium-carbonate based scale formation in mill water pump housings, reticulation lines, heat exchangers, leach pads, elution circuits and on activated carbon.

ZI-CHEM 51A0 contains no organic or inorganic phosphate compounds which degrade to orthophosphate under the conditions of extremely high temperature, ultraviolet light or long retention time. ZI-CHEM 51A0 has also proven to perform well under high solids environments.

This product shows excellent inhibiting characteristics against calcium carbonate scale formation, by interfering with, and distorting, the crystal lattice growth. By minimizing the calcium scale matrix, other non-calcium scale formation is reduced.

TYPICAL PROPERTIES

- Appearance : Colorless to light yellow liquid
- Specific gravity: 1.10 – 1.25
- pH (neat) < 3.0
- Flash point: No data
- Freeze point: No data

APPLICATIONS

The optimum dosage of ZI-CHEM 51A0 required for any given application will depend on a number of factors including: the nature and extent of the scale, the characteristics of the particular system and the degree of control required. ZI-TECHASIA is equipped to conduct all water and scale analyses necessary to determine the optimum dosage level of ZI-CHEM 51A0

FEEDING AND CONTROL

ZI-CHEM 51A0 should be fed as delivered to the thickener overflow, or the suction of water pumps to be treated, or other locations in the circuit where scaling is most severe.

ZI-CHEM 51A0 should be added using a chemical metering pump with liquid end constructed of suitable materials. These include PVC, polypropylene, Viton, Teflon and stainless steel.

TECHNICAL SERVICE

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

COMMON APPLICATIONS

- Process water pumps & lines
- Thickener overflow pumps
- Tailing return water pumps
- SAG/Ball Mill Lube motor cooler
- Decant return lines
- Pregnant water pumps
- Barren ester pumps & lines
- Pregnant water pumps
- Air Conditioning
- SAG Mill Sprayer water line & Nozzle
- Knelson Concentrator process
- sprayer water line & nozzle

THE BENEFITS

- Reduced downtime for manual cleaning
- Reduced cost for manual cleaning
- Reduced electricity consumption
- Improved gold recovery on Heap Leach and carbon column
- Prevent sprayers nozzle blockage and improved running hours
- Improve screen/strainer running hours
- Prevent over heating on SAG/Ball Mill motor

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 pails, 200kg drums, 1,000kg IBC's or in bulk.

