



## OCTOSPERSE CSO

## Anti-Scalant Co-Polymer

CHEMICAL NAME

Polyacrylic Acid Copolymer

PHYSICAL FORM:

Clear colorless to light yellow liquid

### PRODUCT SPECIFICATIONS

### METHODS

Solids, %	45.0 – 46.0	WI-SCC-040/WI-ISO-2-028
pH	3.0 – 3.5	WI-PHC-010/WI-ISO-2-008
Viscosity, cps.	250 - 500	WI-VDC-070/WI-ISO-2-024

### PRODUCT DESCRIPTION:

Octosperse CSO is an aqueous, acrylic/sulfonic acid copolymer solution of low molecular weight. It is an anti-scalant for calcium phosphate and a dispersant for metals, silt, metal oxides, and, provides some protection for calcium carbonate, calcium sulfate, barium sulfate, and calcium fluoride scales. The product is designed to inhibit the formation of calcium phosphate scale from all phosphate sources and better stabilizes polyphosphate and organophosphonates in solution. Octosperse CSO is an excellent phosphate and zinc stabilizer for anti-scale/anti-corrosion water treatment formulations and has great thermal, chemical stability, tolerance to water hardness and compatibility with halogen biocides. It is designed to prevent the precipitation and formation of adherent calcium scales, suspended solids and metal oxides in recirculating and once-through cooling systems, boilers, paper making, oilfield and mining process systems. It is compatible with most common water treatment formulation additives. Depending on the exact application a recommended use level is 5 – 25 ppm. In recirculating cooling systems, boiler internal treatments, paper making processes, oilfield and mining process systems. The dosage will increase with high temperature waters containing high suspended solids or calcium levels. The recommended use level in once-through systems is 1.0 – 1.5 ppm of the Octosperse CSO per ppm of total iron plus manganese plus suspended solids. Higher turbidity waters will require dosage at the high end of the range. The product can be fed neat or formulated readily into multi-component treatment formulations; however, it is suggested that lab testing information be used for acceptable performance levels.

Octosperse CSO is compliant by the FDA for use under the following: CFR 21, Section 173.310. It may be safely used as a boiler water additive in the preparation of steam that will contact food, under the following conditions: 1) the amount of additive is not in excess of that required for its functional purpose, and the amount of steam in contact with food does not exceed that required to produce the intended effect in or on the food, and 2) the total amount of the active ingredient is not in excess of 20 ppm in the boiler feed water. It is the responsibility of the manufacturer of the FINAL article to ensure that the article complies with the extraction limitations and other limitations, including use limitations, applicable to its intended use and is technically suitable for that particular use.

All ingredients comply with the TSCA Inventory.

### STORAGE AND HANDLING:

Containers should be kept tightly closed; avoid direct sources of heat or sunlight when possible. Make sure the part drum is used quickly and that all stock is rotated on a first-in, first-out basis. Protect from freezing. Store at 50 – 86 deg. F. Contents should be stirred using mechanical agitation prior to use. Shelf life expected one year from date of manufacture provided the material is stored at proper temperatures and containers remain tightly closed.

04/13;07/11;01/12JV;07/11;11/10;02/10

The information provided herein is believed to be reliable; however, no guarantees are made or liability assumed. Tiarco Chemical makes no claims or warranties concerning the suitability of the product for a particular use or purpose.

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