



## AQUASTAT 101

*Antiscalant*

### APPLICATIONS:

AQUASTAT-101 is an aqueous polyelectrolyte solution for use in reverse osmosis applications. It inhibits the formation and growth of alkaline earth carbonate and sulfate scales. It also disperses suspended solids and colloids.

### CHARACTERISTICS :

● Appearance	Water white to amber, slightly hazy liquid.
● Odour	Slightly acidic.
● pH	3.5 $\pm$ 0.5
● Freezing Point	-2°C
● Boiling Point	101°C
● Specific Gravity	1.2
● Shelf life	1 Year

### DOSING :

Typical dosage of Aquastat 101 for controlling scale formation and minimizing fouling in RO system ranges from 3 to 10ppm. A dosage projection is required for each system to determine the proper dosage. A complete water analysis is required and a filter analysis is recommended as a basis for accurate dosage projection.

### CORROSIVITY :

AQUASTAT-101 is supplied at pH 3.0 to 4.0 and therefore does not require corrosive labeling or placards. Based on test results using the NACE Standard TM-01-69 (76) test procedure, AQUASTAT-101 is not considered corrosive.

### AQUATIC TOXICITY :

Aquatic toxicity testing indicates that AQUASTAT-101 is relatively non-toxic to rainbow trout, daphnia, algae, inland silverside and mysid shrimp. Result of the test are available on specific requests.

### PACKAGING:

Aquastat 101 is available in packing of 5 Kgs. 30 Kgs. and 200 Kgs. respectively.

### FEATURES :

- Excellent Threshold inhibitor of alkaline earth scales
- Excellent Crystal Distorter
- Effective at low dosages
- NSF approved
- Contains no phosphorus
- Water-soluble Hydrolytically, thermally and biologically stable
- Excellent Dispersant of suspended solids and colloids.
- Consistent product quality



### BENEFITS :

Minimizes or eliminates acid feed for scale control. Inhibits the precipitation of:

$\text{CaCO}_3$  at an LSI (or S&DI) up to +2.3

$\text{CaSO}_4$  upto 1.8 times super saturation.

Modifies the crystalline structure of scale forming minerals such that they do not adhere well to membrane and equipment surfaces thus improving system efficiency.

### COST EFFECTIVE :

Acceptable for use in potable water application.

Complies with stringent effluent discharge requirement for phosphorus.

Can be injected as neat product or diluted as required. Retains activity upon storage and use. Maintains suspended solids and colloids in suspension until rejection thus minimising fouling. Ensures predictable performance.



**AQUASTAT 121**  
*Antiscalant*

**APPLICATIONS:**

AQUASTAT-121 is an aqueous polyelectrolyte solution for use in reverse osmosis applications. It inhibits the formation and growth of alkaline earth carbonate and sulfate scales. It also disperses suspended solids and colloids.

**PRODUCT SPECIFICATIONS :**

Appearance : A clear colorless to Pale yellow liquid  
pH as such : >10.0  
Specific gravity at 25°C : 1.2-1.3

**DOSING :**

Typical dosage of Aquastat 121 for controlling scale formation and minimizing fouling in RO system ranges from 1 to 12ppm. A dosage projection is required for each system to determine the proper dosage. A complete water analysis is required and a filter analysis is recommended as a basis for accurate dosage projection.

**PACKAGING :**

Aquastat 121 available in packing of 5 Kgs. 30 Kgs. and 200 Kgs. respectively.

**FEATURES :**

- Excellent Threshold inhibitor of alkaline earth scales
- Excellent Crystal Distorter
- Effective at low dosages
- Cost effective
- Contains no phosphorus
- Water-soluble Hydrolytically, thermally and biologically stable
- Consistent product quality

**BENEFITS :**

Minimizes or eliminates acid feed for scale control. Inhibits the precipitation of :

$\text{CaCO}_3$  at an LSI (orS&DI) up to +2.6

$\text{CaSO}_4$  upto 3 times super saturation.

$\text{SiO}_2$  upto 210 ppm in the reject stream

Modifies the crystalline structure of scale forming minerals such that they do not adhere well to membrane and equipment surfaces thus improving system efficiency.



Acceptable for use in potable water application.

Complies with stringent effluent discharge requirement for phosphorus.

Can be injected as neat product or diluted as required. Retains activity upon storage and use. Ensures predictable performance.