

TRISPE 1000 Efficient Scale Inhibitor / Dispersant

1. Product Characteristics

- Comply with the ANSI/NSF Standard 60 standard.
- Effectively applied to the DOW Chemical Company's Filmtec® membranes.
- Effectively applied to the Nitto Denko company's RO membranes.
- Compatible with organic flocculants and ST.
- The scale inhibitor is suitable for water with high hardness, high alkaline and alkaline pH value. It can effectively control the deposition of carbonate, sulfate and calcium fluoride on the surface of the membrane. LSI on the rejected water side is up to 2.78 without scale formation.
- Applicable pH range: 5.0-9.0.

2. Product Feature

- Appearance: colorless to pale yellow liquid
- Density (20 °C): 1.20±0.05 g/cm³
- pH (1.0%): 1.5 ~ 3.5
- Solubility: completely soluble in water

3. Product Utilization

- The Dosing Tank: Organic acid is the main component of TRISPE1000 and it has corrosive property at high concentrations. Therefore, the anti-corrosion equipment should be used in the dosing tank. The anti-corrosion materials mainly include PVC, glass fiber reinforced plastic (FRP) and HDPE.
- The Dosing Point: Best before MIXER or Cartridge filters.
- Times of Dilution: TRISPE1000 can be dosed in the form of diluted or original, to ensure the accuracy of dosing, the dosage is generally diluted with the dilution water which usually used RO or mixed bed permeate, the recommendation for dilution time is under 10 times. Reconstitute the agent every 5-7 days. Note that the dosing box should be cleaned before the preparation of the agent to prevent the growth of microorganisms.
- Dosage: Dosage is according to the water quality of the feed water, the type of membrane and the operating parameters of the system (such as recovery rate, temperature and pressure, etc.), the general dosing amount is 2.0-5.0ppm, it is recommended to use TRISPE Analyzer special membrane scale inhibitor software to calculate the optimal dosage.

4. Control of Ion Concentration on Rejected Water Side

- Si: up to 2000 ppm
- LSI: up to 2.78
- Fe: <1.0ppm
- AL: <0.5ppm
- CaSO₄: up to 8000ppm

5. Package

25kg/original seal barrel, keep in a cool place. Please refer to MSDS (Material Safety Data Sheet) or COA (Certificate of Authenticity) for the utilization of this product. Product expire date: three years.

TRISPE 1200 Efficient Scale Inhibitor / Dispersant

1. Product Characteristics

- Comply with the ANSI/NSF Standard 60 standard.
- Effectively applied to the DOW Chemical Company's Filmtec[®] membranes.
- Effectively applied to the Nitto Denko company's RO membranes.
- Compatible with other flocculants such as organic flocculants and ST.
- The scale inhibitor is suitable for desalinated water with high salt content; effectively controlling the scaling of carbonate, sulfate and calcium fluoride on the rejected water side, effectively dispersing the deposition of metal oxide on the surface of the membrane, LSI of the rejected water side is up to 2.78 without scale formation.
- Applicable pH range: 5.0-9.0.

2. Product Feature

- Appearance: colorless to pale yellow liquid
- Density (20°C): 1.15±0.05 g/cm³
- pH(1.0%): 1.0 ~ 3.0
- Solubility: completely soluble in water

3. Product Utilization

- The Dosing Tank: Organic acid is the main component of TRISPE1200 and it has corrosive property at high concentrations. Therefore, the anti-corrosion equipment should be used in the dosing tank. The anti-corrosion materials mainly include PVC, glass fiber reinforced plastic (FRP) and HDPE.
- The Dosing Point: Best before MIXER or Cartridge filters.
- Times of Dilution: TRISPE1000 can be dosed in the form of diluted or original liquid, to ensure the accuracy of dosing, the dosage is generally diluted with the dilution water which usually used RO or mixed bed permeate water, the recommendation for dilution time is under 10 times. Reconstitute the agent every 5-7 days. Note that the dosing box should be cleaned before the preparation of the drug to prevent the growth of microorganisms.
- Dosage: Dosage is according to the water quality of the feed water, the type of membrane and the operating parameters of the system (such as recovery rate, temperature and pressure, etc.), the general dosing amount is 2.0-5.0ppm, it is recommended to use TRISPE Analyzer special membrane scale inhibitor software to calculate the optimal dosage.

4. Control of Ion Concentration on Rejected Water Side

- Si: Up to 350ppm
- LSI: Up to 2.78
- Fe: <1.5ppm
- BAI: <1.0ppm
- CaSO₄: Up to 8000ppm

5. Package

25kg per original seal barrel, keep in a cool place. Please refer to MSDS (Material Safety Data Sheet) or COA (Certificate of Authenticity) for the utilization of this product. Product expire date: three years.

TRISPE 6000 Efficient Scale Inhibitor / Dispersant

1. Product Characteristics

- Comply with the ANSI/NSF Standard 60 standard.
- Effectively applied to the DOW Chemical Company's Filmtec® membranes.
- Effectively applied to the Nitto Denko company's RO membranes.
- Compatible with other flocculants such as organic flocculants and ST.
- The scale inhibitor is applied to water with high sulfate, effectively controlling the scaling of sulfate, carbonate and calcium fluoride on rejected water side, dispersing the deposition of metal oxide on the surface of the membrane, and controlled calcium sulfate is up to 8000ppm on the reject water side.
- Apply to all major membranes.
- Applicable pH range: 5.0-9.0.

2. Product Feature

- Appearance: colorless to pale yellow liquid
- Density(20°C): $1.18 \pm 0.05 \text{ g/cm}^3$
- pH(1.0%): 8.0 ~ 11.0
- Solubility: completely soluble in water

3. Product Utilization

- The Dosing Tank: Organic acid is the main component of TRISPE6000 and it has corrosive property at high concentrations. Therefore, the anti-corrosion equipment should be used in the dosing tank. The anti-corrosion materials mainly include PVC, glass fiber reinforced plastic (FRP) and HDPE.
- The Dosing Point: Best before MIXER or Cartridge filters.
- Times of Dilution: TRISPE1000 can be dosed in the form of diluted or original liquid, to ensure the accuracy of dosing, the dosage is generally diluted with the dilution water which usually used RO or mixed bed permeate water, the recommendation for dilution time is under 10 times. Reconstitute the agent every 5-7 days. Note that the dosing box should be cleaned before the preparation of the drug to prevent the growth of microorganisms.
- Dosage: Dosage is according to the water quality of the feed water, the type of membrane and the operating parameters of the system (such as recovery rate, temperature and pressure, etc.), the general dosing amount is 2.0-5.0ppm, it is recommended to use TRISPE Analyzer special membrane scale inhibitor software to calculate the optimal dosage.

4. Control of Ion Concentration on Rejected Water Side

- Si: Up to 200ppm
- LSI: Up to 2.78
- Fe: <1.0ppm
- Al: <0.5ppm
- CaSO₄: Up to 8000ppm

5. Package

25kg per original seal barrel, keep in a cool place. Please refer to MSDS (Material Safety Data Sheet) or COA (Certificate of Authenticity) for the utilization of this product. Product expire date: three years.

TRISPE 8000 Efficient Scale Inhibitor / Dispersant

1. Product Characteristics

- Comply with the ANSI/NSF Standard 60 standard.
- Effectively applied to the DOW Chemical Company's Filmtec® membranes.
- Effectively applied to the Nitto Denko company's RO membranes.
- Compatible with other flocculants such as organic flocculants and ST.
- The scale inhibitor is suitable for the water with high iron, can effectively disperse the deposition of soluble iron on the surface of the membrane, controlled iron content up to 1.0ppm on rejected water side.
- At the same time, it can effectively control the scaling of carbonate, sulfate, calcium fluoride, calcium phosphate and other substances on the rejected water side.
- Apply to all major membranes.

2. Product Feature

- Appearance: colorless to pale yellow liquid
- Density(20°C): $1.40 \pm 0.05 \text{ g/cm}^3$
- pH(1.0%): 1.5 ~ 3.5
- Solubility: completely soluble in water

3. Product Utilization

- The Dosing Tank: Organic acid is the main component of TRISPE8000 and it has corrosive property at high concentrations. Therefore, the anti-corrosion equipment should be used in the dosing tank. The anti-corrosion materials mainly include PVC, glass fiber reinforced plastic (FRP) and HDPE.
- The Dosing Point: Best before MIXER or Cartridge filters.
- Times of Dilution: To ensure the accuracy of dosing, the dosage is generally diluted with the dilution water which usually used RO or mixed bed permeate water, the recommendation for dilution time is under 80 times. Reconstitute the agent every 5-7 days. Note that the dosing box should be cleaned before the preparation of the drug to prevent the growth of microorganisms.
- Dosage: Dosage is according to the water quality of the feed water, the type of membrane and the operating parameters of the system (such as recovery rate, temperature and pressure, etc.), the general dosing amount is 0.3-1.0ppm, it is recommended to use TRISPE Analyzer special membrane scale inhibitor software to calculate the optimal dosage.

4. Control of Ion Concentration on Rejected Water Side

- Si: Up to 200ppm
- LSI: Up to 2.78
- Fe: <1.0ppm
- Al: <0.5ppm
- CaSO₄: Up to 8000ppm

5. Package

25kg per original seal barrel, keep in a cool place. Please refer to MSDS (Material Safety Data Sheet) or COA (Certificate of Authenticity) for the utilization of this product. Product expire date: three years.

TRISPE 8011 Efficient Scale Inhibitor / Dispersant

1. Product Characteristics

- Comply with the ANSI/NSF Standard 60 standard.
- Effectively applied to the DOW Chemical Company's Filmtec® membranes.
- Effectively applied to the Nitto Denko company's RO membranes.
- Compatible with other flocculants such as organic flocculants and ST.
- The scale inhibitor is suitable for water contains high SiO₂, which can effectively control and disperse silicon deposition on the surface of the membrane and the controlled SiO₂ on the rejected water side is up to 200ppm.
- At the same time it can effectively control the scale caused by calcium carbonate, barium sulfate, barium sulfate, iron oxide, calcium fluoride, etc.
- Suitable for all major reverse osmosis membranes.

2. Product Feature

- Appearance: colorless to pale yellow liquid
- Density(20°C): 1.20±0.05 g/cm³
- pH(1.0%): 2.5 ~ 5.0
- Solubility: completely soluble in water

3. Product Utilization

- The Dosing Tank: Organic acid is the main component of TRISPE8011 and it has corrosive property at high concentrations. Therefore, the anti-corrosion equipment should be used in the dosing tank. The anti-corrosion materials mainly include PVC, glass fiber reinforced plastic (FRP) and HDPE.
- The Dosing Point: Best before MIXER or Cartridge filters.
- Times of Dilution: To ensure the accuracy of dosing, the dosage is generally diluted with the dilution water which usually used RO or mixed bed permeate water, the recommendation for dilution time is under 100 times. Reconstitute the agent every 5-7 days. Note that the dosing box should be cleaned before the preparation of the drug to prevent the growth of microorganisms.
- Dosage: Dosage is according to the water quality of the feed water, the type of membrane and the operating parameters of the system (such as recovery rate, temperature and pressure, etc.), the general dosing amount is 0.2-0.8ppm, it is recommended to use TRISPE Analyzer special membrane scale inhibitor software to calculate the optimal dosage.

4. Control of Ion Concentration on Rejected Water Side

- Si: Up to 200ppm
- LSI: Up to 2.78
- Fe: <1.0ppm
- Al: <0.5ppm
- CaSO₄: Up to 8000ppm

5. Package

TRISPE8011 is delivered to customers with 11 time concentrated solution, 25kg per original seal barrel, keep in a cool place. Please refer to MSDS (Material Safety Data Sheet) or COA (Certificate of Authenticity) for the utilization of this product. Product expire date: three years.

TRISPE SI001 Efficient Scale Inhibitor / Dispersant

1. Product Characteristics

- Comply with the ANSI/NSF Standard 60 standard.
- Effectively applied to the DOW Chemical Company's Filmtec[®] membranes.
- Effectively applied to the Nitto Denko company's RO membranes.
- Compatible with other flocculants such as organic flocculants and ST.
- The scale inhibitor is adapted to water with high-silicon, high-hardness and high-alkali, which can effectively control and disperse the formation and deposition of silicon on the surface of the membrane and control the SiO₂ on the rejected water side to reach 600 ppm.
- It can also control the scale caused by carbonate, sulfate and phosphate, and strong dispersion to metal oxides.
- Suitable for all major reverse osmosis membranes.

2. Product Feature

- Appearance: colorless to pale yellow liquid
- Density(20°C): 1.20±0.05 g/cm³
- pH(1.0%): 1.0 ~ 3.0
- Solubility: completely soluble in water

3. Product Utilization

- The Dosing Tank: Organic acid is the main component of TRISPE1000 and it has corrosive property at high concentrations. Therefore, the anti-corrosion equipment should be used in the dosing tank. The anti-corrosion materials mainly include PVC, glass fiber reinforced plastic (FRP) and HDPE.
- The Dosing Point: Best before MIXER or Cartridge filters.
- Times of Dilution: TRISPE1000 can be dosed in the form of diluted or original liquid, to ensure the accuracy of dosing, the dosage is generally diluted with the dilution water which usually used RO or mixed bed permeate water, the recommendation for dilution time is under 10 times. Reconstitute the agent every 5-7 days. Note that the dosing box should be cleaned before the preparation of the drug to prevent the growth of microorganisms.
- Dosage: Dosage is according to the water quality of the feed water, the type of membrane and the operating parameters of the system (such as recovery rate, temperature and pressure, etc.), the general dosing amount is 2.0-10.0ppm, it is recommended to use TRISPE Analyzer special membrane scale inhibitor software to calculate the optimal dosage.

4. Control of Ion Concentration on Rejected Water Side

- Si: Up to 600ppm
- LSI: Up to 2.78
- Fe: <2.0ppm
- Al: <1.0ppm
- CaSO₄: Up to 10000ppm

5. Package

25kg per original seal barrel, keep in a cool place. Please refer to MSDS (Material Safety Data Sheet) or COA (Certificate of Authenticity) for the utilization of this product. Product expire date: three years.