

# Soltellus™ Polymer 2402L

## WATER TREATMENT

INCI: Sodium polyaspartate, CAS #94525-01-6  
Regulatory: TSCA, DSL, REACH

**A cost-effective biodegradable, non—bioaccumulating alternative for scale and corrosion control that extends the life of capital assets and improves production.**

Soltellus™ 2402L is an advanced chemical formulation designed to prevent scale formation in various industrial applications. This environmentally friendly, biodegradable inhibitor eliminates a broad range of scales including calcium carbonate, barium sulfate, strontium sulfate, and halite. Soltellus™ also effectively removes parameters causing chemical blockages such as iron and magnesium and is on the EPA's Safer Chemical Ingredient List.

Most applications have >95% scale inhibition or delayed build-up in highly concentrated mediums. Achieve excellent corrosion inhibition performance as high as 93% at low concentrations.

Stable for use in process water temperatures as high as 100°C and a pH range of 7-10, Soltellus™ 2402L is easy to handle with consistent performance and is a sustainable alternative to polyacrylates, phosphates, and phosphonates.

## Key Features

### BIODEGRADABLE

The formulation is composed of environmentally friendly compounds that readily degrade under natural conditions, minimizing its impact on ecosystems.

### SCALE PREVENTION

Effectively prevents the formation of mineral scales, such as calcium carbonate, calcium sulfate, and iron oxide, on metal surfaces.

### BROAD APPLICATION RANGE

Suitable for use in various industries, including reverse osmosis (RO) membranes, boilers, heat exchangers, oil and gas production, and industrial water systems.

### COMPATIBLE WITH DIFFERENT WATER TYPES

At dosages as low as 2.5ppm, Soltellus 2402L has proven superior calcium carbonate inhibition in concentrations as high as 500ppm CaCO<sub>3</sub> delaying scale formation compared to leading antiscalants.

### EASY TO USE

A liquid formulation that can be easily dosed into water systems using standard chemical dosing equipment.



## Technical Data

### PHYSICAL PROPERTIES

| Parameter            | Value                      |
|----------------------|----------------------------|
| CAS#                 | 94525-01-6                 |
| Physical State       | Liquid                     |
| Appearance           | Amber                      |
| Melting Point        | -20 — -10 °C (-4 — 14 °F)  |
| Freezing Point       | -20 — -10 °C (-4 — 14 °F)  |
| Relative Density     | 1.2 - 1.3 g/mL             |
| Viscosity            | 20 - 60 cP                 |
| Viscosity, Kinematic | 15 - 50 mm <sup>2</sup> /s |

### CHEMICAL PROPERTIES

| Parameter       | Value          |
|-----------------|----------------|
| % Active        | 35 - 45        |
| pH              | 7 - 10         |
| Chemical family | Polyaspartates |
| Solubility      | Water Soluble  |

### PERFORMANCE DATA

| Parameter                       | Value                           |
|---------------------------------|---------------------------------|
| Scale Inhibition                | 90 - 95%                        |
| Corrosion resistance efficiency | >60%                            |
| Biodegradable                   | Yes                             |
| Environmental Impact            | Low                             |
| Scale Inhibition Dosage         | 10 - 20 ppm                     |
| Corrosion Inhibition Dosage     | 50 - 100 ppm                    |
| pH Stability                    | 7 - 10                          |
| Thermal Stability for use       | Up to 100°C                     |
| Solubility                      | High                            |
| Compatibility                   | Compatible with other chemicals |
| Performance Consistency         | Excellent                       |

## Product Usage Instructions

The dosage of Soltellus™ 2402L may vary depending on the specific system requirements, water quality, and scale/corrosion potential. It is recommended to conduct a system analysis and consult with technical experts to determine the optimal dosage.

## Safety and Handling

- Store the product in a cool, dry, and well-ventilated area away from direct sunlight.
- Keep containers tightly closed when not in use to prevent contamination.
- Avoid contact with eyes, skin, and clothing. In case of contact, rinse thoroughly with water.
- Use appropriate personal protective equipment (PPE) when handling the product.

## Safety and Environmental Considerations

- Soltellus™ 2402L is designed to be biodegradable, reducing its environmental impact. However, it is still recommended to minimize the release of the product into water bodies and follow local regulations.
- Read and understand the Safety Data Sheet (SDS) before handling or using the product.
- Dispose of the product and its containers in accordance with local regulations.

## Packaging

Soltellus™ 2402L is available in various packaging sizes, including:

- 1 liter pail
- 20 liter pail
- 55 gallon drums
- 270 gallon totes

## Shelf Life

When stored as recommended, the shelf life is 12 months from the date of manufacture.

## Disclaimer

The information provided in this technical data sheet is based on our current knowledge and experience. It is intended to describe the product and its properties but does not constitute a warranty or guarantee for any specific application. Users are advised to conduct their own testing and evaluation to ensure the suitability of the product for their intended purposes.

