

# Soltellus™ 2201S

Soltellus™ Polymer Superior Shine for Automatic Dishwasher Detergents

## Overview

Soltellus is an anionic, multifunctional polymer produced by the polymerisation of aspartic acid. It's biodegradable with superior stain fighting properties, which is the #1 attribute consumers seek in their laundry detergent. Soltellus is compatible with enzymes and is a highly effective replacement for polyacrylate in dish detergents.

### APPLICATIONS

- Automatic dishwashing detergent

### BENEFITS

- Shine
- Prevents filming
- Prevents spotting
- Performs in all water hardness conditions
- Water softening

### SUSTAINABLE BENEFIT

- Biodegradable
- Polyacrylate substitution

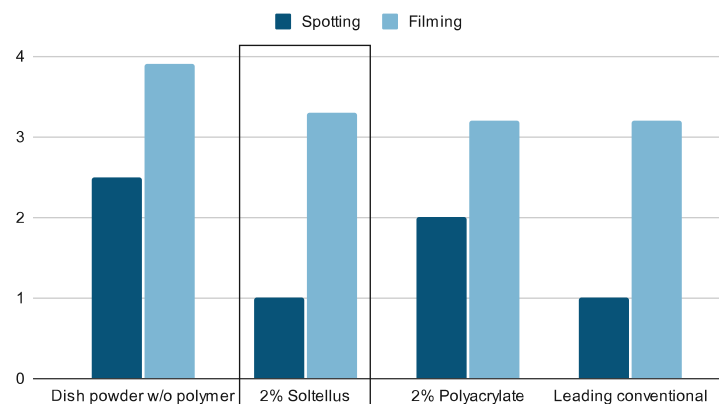
Soltellus performs at parity with the leading brand on spotting and filming in hard water

Soltellus replaces non biodegradable polyacrylate in automatic dishwasher detergent

## Performance

Soltellus prevents spotting and filming in dishwasher detergent in all water hardness conditions, and also performs at parity with the leading brand on spotting and filming in hard water (330 ppm CaCO<sub>3</sub>).

### Soltellus Performance in Hard Water



The lower the bar, the better.



Leading Conventional

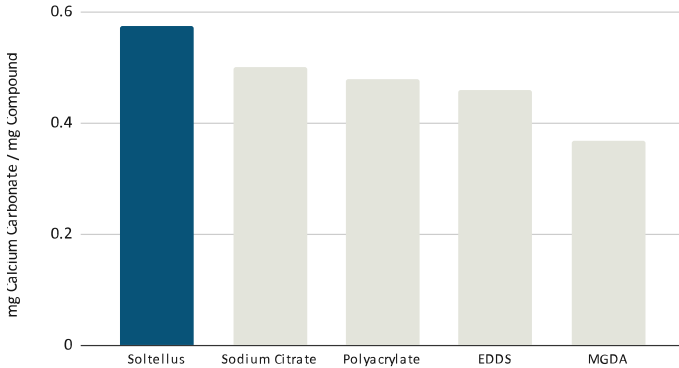
2% Soltellus™

ASTM D3556-85, 2 replicates, 1-cycle, Hard water: 330 ppm CaCO<sub>3</sub>, Tandell Research Lab  
Spotting: 1 = no spotting, 2= Spot at random; Filming: 3.2-3.3 = slight, 4=moderate

**IN ADDITION TO SHINE, SOLTELLUS™ POLYMER:**

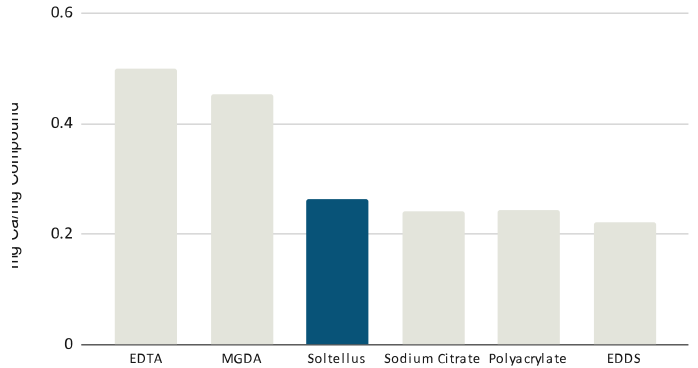
- effectively dissolves hard water minerals, preventing their deposition on glass, cutlery and china
- dissolution's power outperforms non biodegradable polyacrylate and biodegradable sequestrants
- has better calcium ion sequestering capacity than polyacrylate and most biodegradable sequestrants
- replaces non biodegradable polyacrylate in automatic dishwasher detergent

**Calcium Carbonate Dissolution**



13% better than Sodium Citrate  
 17% better than Polyacrylate  
 36% better than MGDA

**Calcium Sequestration**



7% better than Polyacrylate

Calcium carbonate dissolution: Lygos internal lab testing via turbidity measurement at pH 9. Calcium Sequestration: Lygos internal lab testing optically using a calcium ion selective electrode at pH 9. EDTA: Ethylenediamine tetracetic acid; EDDS: Ethylenediamine, disuccinic acid; MGDA: methylglycinediacetic acid trisodium salt

**Available in**

Soltellus™ 2201S	Sodium polyaspartate	Low Color Powder (85% actives)
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