

Soltellus™ Polymer 2101L/2101S

CLEANER

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

Soltellus™ is tough on soils

Soltellus™ is a biodegradable, anionic polymer produced by the polymerisation of aspartic acid with multifunctional benefits suitable for a wide array of cleaners. Soltellus features sequestering, dispersing and anti-scaling properties without smearing or streaking. It performs in hard water, and works in dilute at home solutions. Soltellus is also on the EPA's Safer Chemical Ingredients list.

Applications	Benefits	Sustainable benefit
<ul style="list-style-type: none"> All Purpose cleaner Bathroom cleaner Shower cleaner Glass cleaner Floor cleaner Dilute at home 	<ul style="list-style-type: none"> Water soluble Limescale removal Soap scum removal Effective in neutral & alkaline formula Performs in all water hardness 	<ul style="list-style-type: none"> Biodegradable Suitable for cold manufacturing process EPA's Safer Chemical Ingredients list

Performance

Safer on Surfaces

Formulations featuring Soltellus are effective at neutral and alkaline pH, and suitable for all surfaces including granite and marble.

Bathroom/Shower Cleaner

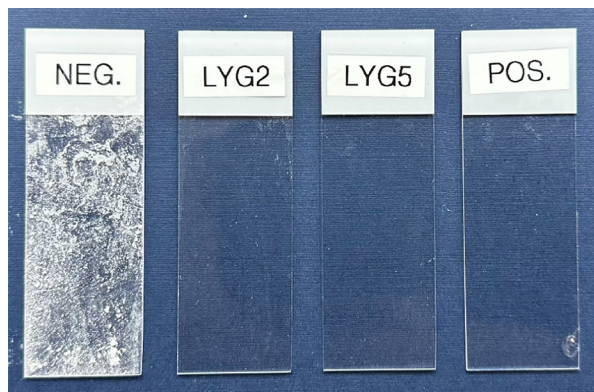
Removes Soap Scum and Limescale

In the United States, over 85% of households have hard water, which results in scale buildup on faucets and showerheads and hard to remove soap scum in the bath and shower.

Soltellus™

- removes soap scum in showers, bathtubs and on shower doors
- removes limescale on hard surfaces, leaving faucets, countertops and shower doors clean
- is effective at neutral and alkaline pH

Soap Scum



Limescale

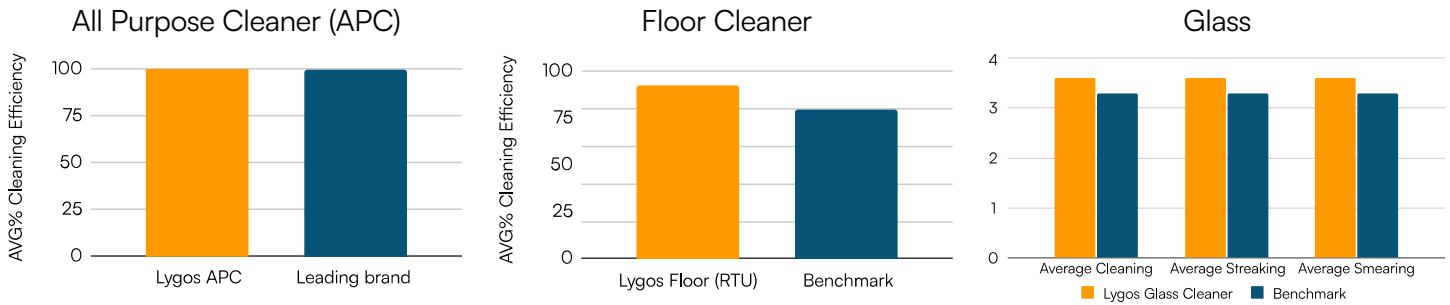


Methodology: **Soap scum** glass slides were rinsed with a 1 M calcium oleate solution for 3 min then dried for 2 h at 70°C (3 cycles) and dipped in a shower cleaner for 2 min. **Limescale** glass slides were rinsed with a 2 M calcium carbonate solution for 3 min, then dried for 2 h at 70°C (3 cycles), then dipped in a shower cleaner for 2 min. **Formula containing**: NEG: No polymer at pH 7, LYG 2: 1% Soltellus at pH 7, LYG 5: 1.5% Soltellus at pH 9, POS: Leading brand.

All Purpose (APC), Glass and Floor Cleaner

Soltellus™

- replaces the chelants in APC, Floor and Glass Cleaner
- supports the removal of particulates and oily soils on washable walls and flooring where it performs at parity (APC) or better (Floor) than the commercial benchmark
- removes soils without streaking or smearing (Glass)



Methodology: **APC** and **Floor Cleaner**, ASTM D4488-95-A5 particulates and oily soil removal on vinyl tile.

CSPA DCC-09 Glass Cleaner Test
 Average Cleaning: 3 = Good, 4 = Total removal
 Average Streaking: 3 = Slight, 4 = None
 Average Smearing: 3 = Slight, 4 = None

Physical and Chemical Properties

Parameter	Soltellus™ 2101L	Soltellus™ 2101S
Appearance	Amber liquid	Yellow powder
Total actives (%):	>35	>85
pH (10% solution)	8.0-11.0	6.5-10
Moisture content		<10%
Viscosity (cps)	20-60	

ECO-FRIENDLY

Biodegradable (OECD 301B)

PH STABILITY

Powder: Stable / Liquid: Stable > 7

STORAGE

Store in a closed container in a cool dry area, keep away from direct light.

Available in

Soltellus™ 2101L	Sodium polyaspartate	Low Color Liquid (35% actives)
Soltellus™ 2101S	Sodium polyaspartate	Low Color Powder (85% actives)