

## News release

June 1<sup>st</sup>, 2026

### Nouryon introduces Structure® Silk starch, a readily biodegradable rheology modifier and texturizer for personal care formulations

Nouryon's **Structure® Silk starch**, the newest addition to its Structure® portfolio of naturally derived and sustainable rheology modifiers. Derived from non-GMO potato and developed in response to market trends for new, innovative textures and unique sensory experiences, **Structure® Silk starch** provides end users with a final product featuring a luxurious, cushioned feel and bright luminosity for skin care, hair care and hair styling formulations.

Product name	Structure® Silk starch
INCI name	Hydroxypropyl Starch Phosphate
Japanese INCI name	ヒドロキシプロピルデンブリン酸
Chinese INCI name	羟丙基淀粉磷酸酯
Quasi-drug ingredient name	-

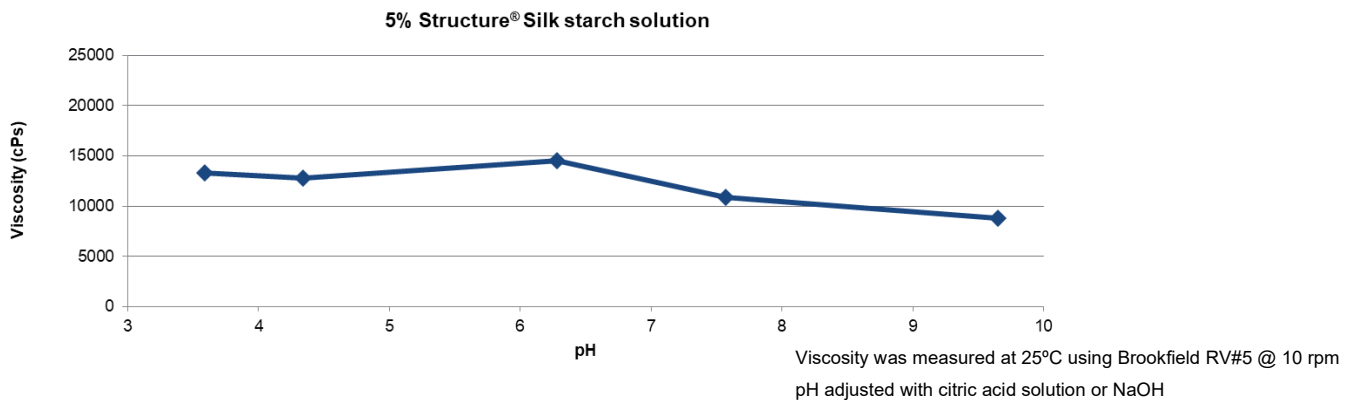
#### Recommended applications

- Skin lotions and creams
- Leave on face masks
- Serums
- Hair styling gels and emulsions
- Conditioners
- Facial wash

## Features and benefits

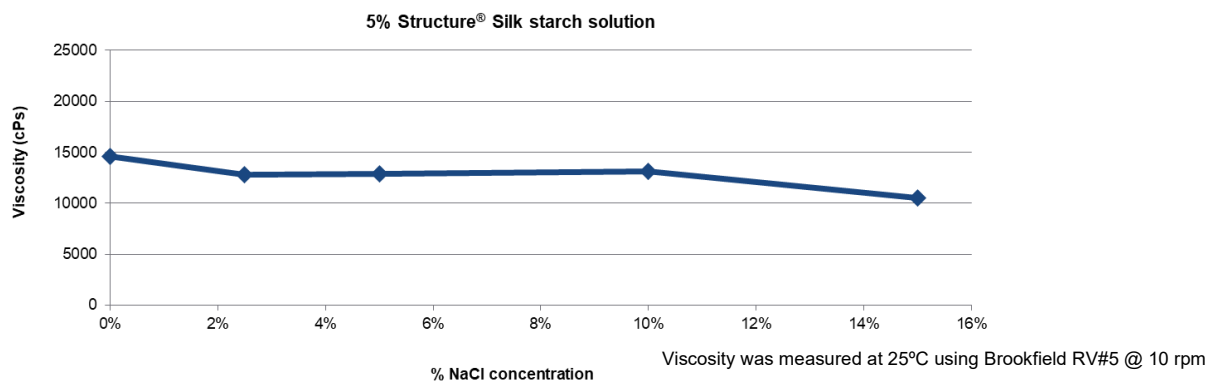
Feature	Benefits
Salt tolerant	Stable in the presence of high electrolyte levels (15%)
pH stability	Stable in systems with a from pH 3-9
Modified potato starch	NOI=0.9 (Natural origin index) Non-GMO Readily biodegradable (OECD) Cold water processable Bright and glossy emulsions with a luxurious, cushioned feel High clarity in aqueous systems Film-forming properties

## Thickening performance as a function of pH



Structure® Silk starch is an effective rheology modifier across a broad pH range.

## Thickening performance in the presence of salt



Structure® Silk starch tolerates up to 15% sodium chloride while still maintaining effective thickening.

In creams and lotions, **Structure® Silk starch** builds viscosity while creating a differentiated texture. The result is a bright and glossy emulsion with a rich and cushioned skin feel.

In aqueous systems, **Structure® Silk starch** provides high clarity alongside viscosity build. It also provides stiffness, and high humidity resistance ideal for hair styling gels and control creams.

In facial wash applications, **Structure® Silk starch** provides quick foam generation and moisturizing feel after drying.

## Contact

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