



Product Bulletin

Elevance Smooth CS-110N

Product Description

Based on Nobel-prize winning technology, this 100% plant-based, multi-functional polymer can be used in a wide range of personal care formulations.

INCI Name

Hydrogenated Soy Polyglycerides (and) C15-23 Alkane

Features

- Low melt point, non-crystalline polymer
- Naturally derived
- Compatibility with many polar and non-polar cosmetic raw materials
- Compatible and miscible with multiple natural oils

Benefits

- Easy to use in wide range of formulations
- Semi-occlusive film former
- Structures in aqueous and non-aqueous formulations
- Builds viscosity in water-based formulations
- Modifies texture in a wide number of formulations
- Provides smooth, dry feel to oil-rich formulations with no greasy residue

Applications

Skin Care

Hair Care

Color Cosmetics

Possible Uses

Skin care: body creams, body butters, body lotions, facial creams with SPF, lip balm, deodorant

Hair care: hair care products, pomade, conditioners

Cosmetics: lipsticks, eye brow pencils, eye line pencils, color cosmetics, mascara

Technical Chemical / Physical Properties

Analysis	Units of Measure	Specification		Method
		Minimum	Maximum	
Appearance: Off-white to beige free flowing pastilles. May have clumps, but clumps should be easily broken apart by application of light pressure.	None	Meets specification	None	
Melt Point	°F	118	140	ASTM D127
Total Heavy Metals: (As, Bi, Cd, Ce, Co, Cr, Cu, Hg, Ni, Pb, Ru, Sb, Sr, Zn)	ppm	None	<20	Elevance (ICP)

Shelf Life & Storage Information

When stored at or below 40°C (104°F) in the original unopened containers, this product has a usable life of 11 years from the date of production

Date Issued: 09/12/2019

Revision Number: 2, Revision Date: 9/09/2020

contact: Wilmar Oleo North America LLC.

11200 Broadway Street
Pearland, TX 77584



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Handling Precautions

Product safety information required for this product is not included herein. Before handling, read material safety data sheet and container label for safe use, physical and health hazard information. The material safety data sheet is available from your local Elevance Renewable Sciences representative or may be available on the Elevance Renewable Sciences website at elevance.com.

Allergen Statement

These oils described in studies as "highly refined" do not demonstrate a hazard to allergic individuals, as shown in studies using the "gold standard" for food allergy diagnosis, the double-blind placebo-controlled food challenge.

Bio-Engineered Status

Elevance Smooth CS-110N is manufactured from soybean oil from sourced from conventionally bred soybeans that have been handled and processed through an identity preserved (IdP) supply chain which has been certified by a 3rd party auditor. Non-GMO means the product is not subject to the GM labeling provisions of EC Regulations 1829/2003 and 1830/2003.

How to Use

Elevance Smooth CS-110N is 100% plant-based polymer materials that can be used to structure, texturize, or thicken a wide variety of personal care formulations.

- Compatible with a wide range of cosmetic and natural oils used today in a variety of cosmetic and personal care applications. See Elevance.com for a variety of formulation ideas.
- Structures a variety of oils to form a wide range of textures, from soft creams to firm waxy products
- Can be used in conjunction with other cosmetic ingredients to alter the hardness of a stick or soft solid formulation
- Shows a significant increase in viscosity when blended in the oil phase of a water-in-oil emulsion, compared to other oil phase rheology modifiers

For Further Information, Please Contact Your Local Representative

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Table 1: Compatibility of Elevance Smooth CS-110N with commonly used materials

Cosmetic Oil	CS-110 Miscibility	Result
Mineral Oil	Yes	Smooth, slightly translucent soft paste
Isododecane	Yes	Smooth, slightly translucent soft paste
Tricaprylin	Yes	Stiff white paste
Caprylic/Capric Triglyceride	Yes	Stiff white paste
Tridecyl Neopentanoate	Yes	Smooth, white soft paste
C12-15 Alkyl Benzoate	Yes	Smooth, translucent soft paste
Ethylhexyl Palmitate	Yes	Smooth, white soft paste
PPG-10 Cetyl Ether	Yes	Stiff white paste
Caprylyl Methicone	Partial	Smooth, white soft paste
Pheny Trimethicone	Partial	Stiff white paste
Cyclopentasiloxane	No	Loose, slushy mixture with free liquid
Bis-Hydroxyethoxypropyl Dimethicone	No	Non-uniform mixture with undispersed wax

Table 2: Structuring ability of Elevance Smooth CS-110N with wide variety of natural oils

Natural Oil	CS-110 Miscibility	Result
Avocado Oil	Yes	Smooth, soft paste
Sunflower Oil	Yes	Slightly translucent stiff paste
Olive Oil	Yes	Slightly yellow stiff paste
Coconut Oil	Yes	Stiff white paste
Jobba Oil	Yes	Smooth, yellow soft paste
Hemp Oil	Yes	Smooth, slightly translucent soft paste
Mustard Oil	Yes	Stiff white paste

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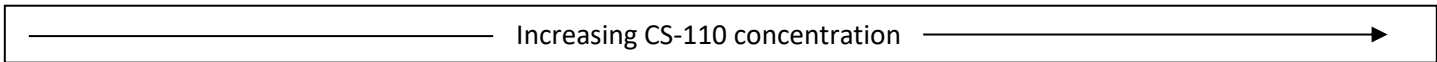
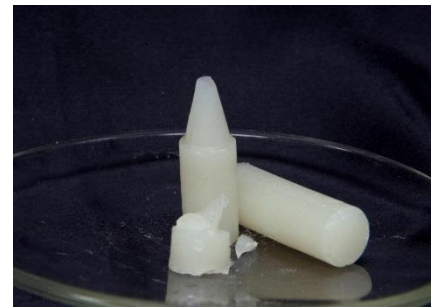
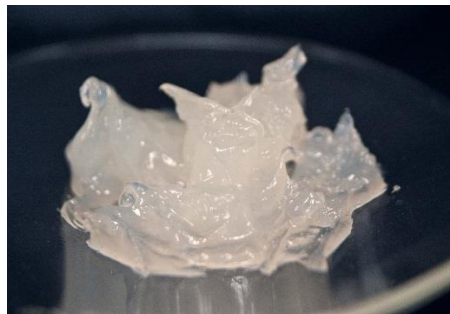
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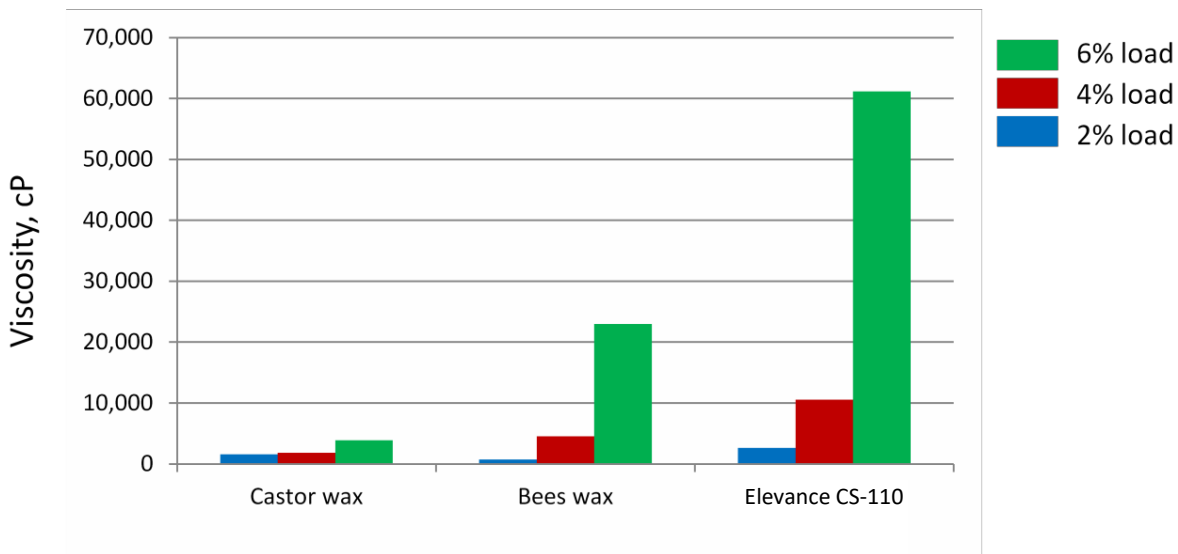
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Structuring with Elevance Smooth CS-110N



Viscosity Building Benefit of Elevance Smooth CS-110N in Cream Formulation



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