

Natunola® Sunflower 1102



Oil expressed from seeds of the Sunflower plant *Helianthus annuus* is used for the synthesis of **Natunola® Sunflower 1102**. The Sunflower plant is widely cultivated and used throughout North America in a wide array of applications. The high content of Linoleic acid and other essential fatty acids in Sunflower oil has made it a favorite with health conscious consumers. The pale yellow oil is also high in Vitamin E making it an excellent ingredient for cosmetic and personal care formulations.

Natunola® Sunflower 1102 is a botanical oil based product with a gel-like structure. Produced using high quality sunflower oil and Natunola's patented technology, **Natunola® Sunflower 1102** is excellent in many types of cosmetic formulations. The smoothing, softening and hydrating properties associated with **Natunola® Sunflower 1102** allows the product to be used as a lubricating agent in a variety of cosmetic preparations. In addition, sunflower oil is thought to coat the skin with an invisible barrier that protects against infections. Such features makes **Natunola® Sunflower 1102** a great addition to any cosmetic ingredient list.

Description:

Natunola® Sunflower 1102 is developed using proprietary technology and oil extracted from Sunflower seeds. Sunflower oil has a lipid profile high in essential fatty acids, contains Vitamin E, Carotenoids and botanical waxes that makes **Natunola® Sunflower 1102** a truly great ingredient in skin care formulations. The gel like structure of **Natunola® Sunflower 1102** enables it to effectively coat the skin to aid in retaining moisture that improves the look and feel of skin. In addition, the smoothing and softening properties of **Natunola® Sunflower 1102** makes it applicable in anti-wrinkle formulations.

Functionality:

Natunola® Sunflower 1102 is an ideal ingredient in cosmetic formulations as it can be used as a skin conditioner, emollient, film former, viscosity controlling agent and a viscosity building agent for anhydrous systems.

Applications:

Natunola® Sunflower 1102 can be used in a wide array of applications, in particular skin care and hair care products, which include baby creams, emollient creams, cold creams, conditioning creams, protective creams, sunscreen lotions, moisturizing creams, shampoos, conditioners, lipsticks, eye shadows and bar soaps.

INCI Name: Helianthus Annuus (Sunflower) Seed Oil (and) Glycine Soja (Soybean) Germ Extract (and) Zea Mays (Corn) Starch (and) Silica (and) Tocopherol.

Specifications:

Appearance:	Light green/yellow transparent gel
Odour:	Little to none
Bacteriological Data:	Total bacteria count (aerobic): <100 cfu/g (At the time of packaging)
Solubility:	Soluble in all vegetable oils, glycerol tri-iso-searate, isosterarly isosterate, oleic acid, isosteraic acid, coco-caprylate/caprate and mixed glycerides. Insoluble in silicone oil, ethanol and 1,2 propanadiol; partially soluble in water
pH (1:20 water emulsion)	4.6 - 6.6
Gardner Colour (1:10 in mixed glycerides):	Maximum 3
Stability:	Stable at room temperature. Store in original container under 20°C.
Recommended Usage Level:	Skin care creams and lotions: 1% to 15% (wt/wt) Others: 1% to 99% (wt/wt)
Formulating pH:	The recommended pH range is 3 to 8.
Formulating Temperature:	The recommended working temperature range is 25°C to 80°C. The best working temperature is 75°C.

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