

Liponate™ Jojoba 20

Sensorial & natural emollient for active formulations



Liponate™ Jojoba 20

INCI : Jojoba Esters
CAS #: 61789-91-1
EC #: 612-381-6

Multi-functional

Eco-friendly, natural

Emolliency, moisturizing, softening and conditioning effects

Low odor and color

Superior oxidative stability

Improved structural integrity in stick formulations

Recommended applications



All cosmetics

Liponate™ Jojoba 20 is a part of the jojoba ester range developed by Vantage™, designed to offer oil-free wax esters for cosmetic applications.

Jojoba esters are natural, green and sustainable ingredients, derived from jojoba oil and hydrogenated jojoba oil via interesterification. Jojoba esters are available in a wide variety of forms with 5 different melting point ranges. They are ideal for use in a broad range of personal care applications, including products requiring “oil-free” label claims.

Liponate™ Jojoba 20 is a light emollient, available as a paste at room temperature, that transforms the sensorial profile of formulations to add softness, spreadability, and a subtle thickness. Unlike triglyceride oils, jojoba esters provide non-greasy emolliency and are readily absorbed into the skin.

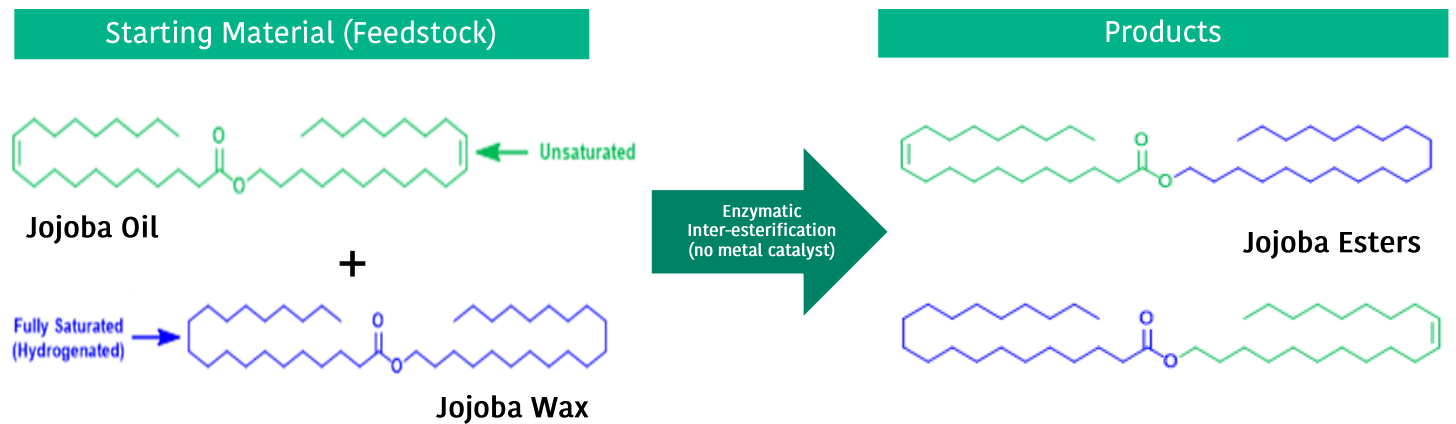
Liponate™ Jojoba 20 is a multi-functional ingredient, ideal for sensitive skin and damaged hair. It has been substantiated in-vivo for skin hydration, skin irritation reduction and contributes to restoring skin barrier after it has been deteriorated. When used in hair care formulations, Liponate™ Jojoba 20 restores and protects hair strands, by protecting them from heat damage and providing deep conditioning that leads to visibly increased shine.

Liponate™ Jojoba 20 is 100% traceable, From Farms to Formulations™, thanks to the complete integration of Vantage™ in jojoba oil and its derivatives. This complete control of the transformation chain of jojoba oil, from harvest to quality control, leads to best-in-class quality jojoba esters.



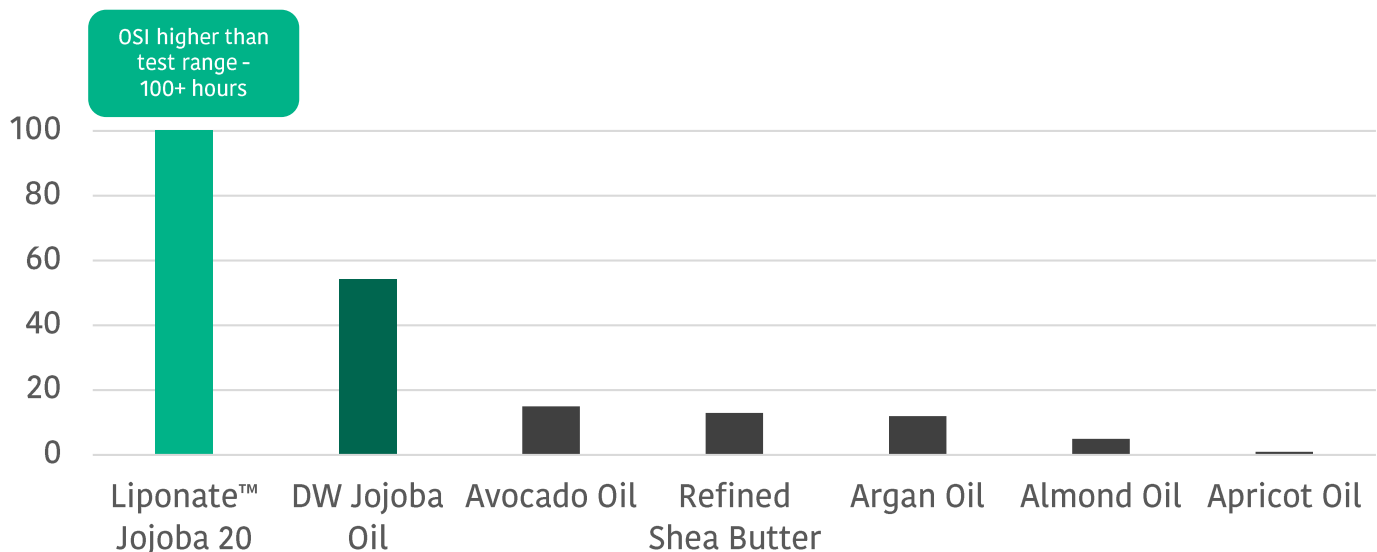
Vantage

Inter-esterification between jojoba oil and jojoba wax



The inter-esterification process creates an oil-free ingredient with unique sensorial benefits

Oxidative Stability Index studies: Liponate™ Jojoba-20



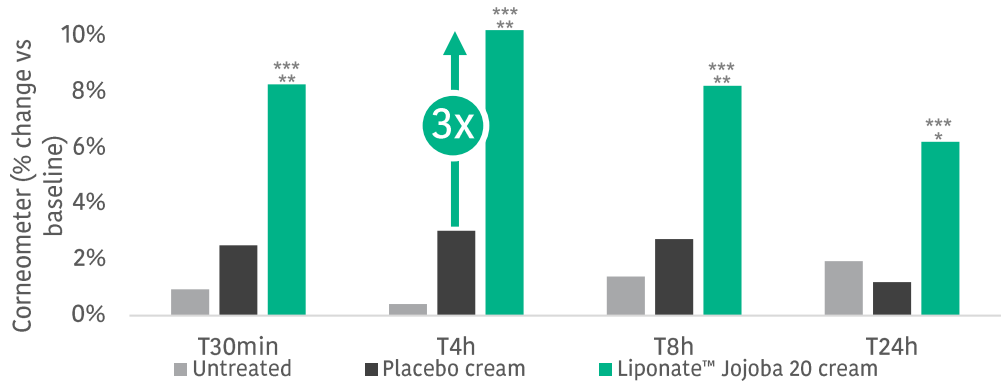
1. Jojoba Oil and jojoba esters display high oxidative stability
2. Jojoba oil and jojoba esters does not oxidize or become rancid and break down under high temperature and pressure.
3. Jojoba oil can be heated to 370°F (188°C) for 96 hours without degradation in composition and carbon chain length*
4. Jojoba oils and jojoba esters prevents formulation degradation in applications requiring high heat or hot pours

Improvement on skin hydration: Liponate™ Jojoba 20

Increase in skin hydration by Liponate™ Jojoba 20 was statistically significant vs placebo, baseline and untreated area.

Method

- 30 panelist, 20-64 years old with fair, self-perceived dry skin
- One application on arm after Baseline measurement. Double blind randomized application
- Evaluation time points: 30mins, 4hrs, 8hrs, and 24hrs after application.

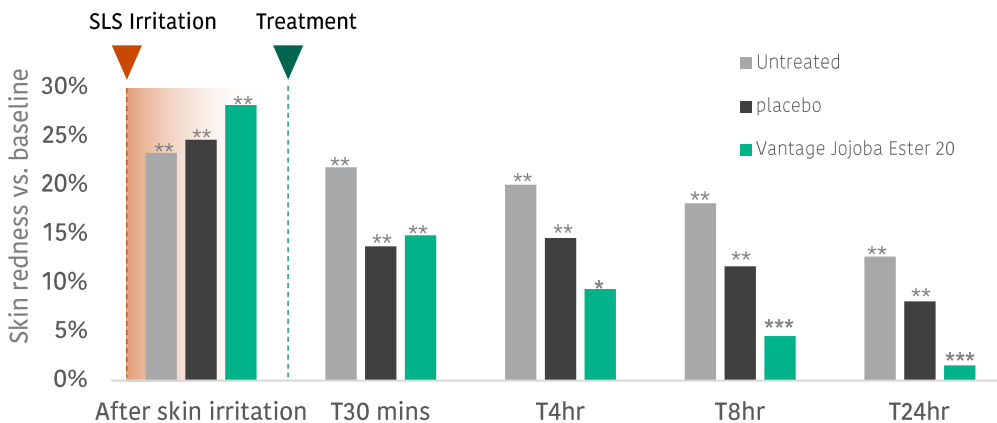


Within 30 mins of application of Liponate™ Jojoba 20, skin hydration is significantly increased.

*** highly significant (p<0.001) vs baseline and untreated
 ** statistically significant vs placebo (p<0.05)
 * statistically significant vs placebo (p<0.1)

Reduction of skin redness: Liponate™ Jojoba 20

Reduction of skin redness using 2% Liponate™ Jojoba 20 after 0.3% SLS treatment



- Skin redness increased ~25% after 13hrs of 0.3% SLS treatment
- Appearance of skin redness reduced in 8hr with 2% Liponate™ Jojoba 20; some improvement observed at 4hrs

Liponate™ Jojoba 20 significantly reduces skin redness in 8 hours.

** statistically significant (p<0.05) vs baseline
 * statistically significant (p<0.1) vs placebo, untreated and baseline
 *** statistically significant (p<0.05) vs placebo and untreated and statistically not significant vs baseline

Hair care benefits for damaged hair

Liponate™ Jojoba 20 was compared to DW Jojoba Oil in hair care application. The tests confirmed that the performance of jojoba esters to protect and care for the hair was greater than the one of the original jojoba oil.

55%
reduction in wet combing work

71%
reduction in dry combing work

25%
more protection against heat damage

2x
more shine

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Appearance @ 25°C	Cream White Paste
Melting Point	42-48°C
Iodine Value cg I/g	64 – 70 mg
Peroxide Value meg O ₂ /kg	4.0 meq/kg maximum
Recommended Use Level	1-10%

Formulation guidelines

Compatible with most oil phase ingredients to include other esters, oils, waxes, fatty alcohols, and gellants.

For high temperature formulation processing, the ester can be incorporated with the oil phase ingredients with appropriate mixing agitation. Ester should not be heated over 95°C.

For anhydrous systems, Liponate™ Jojoba 20 can be incorporated with simple mixing agitation with heat until melted and uniform.

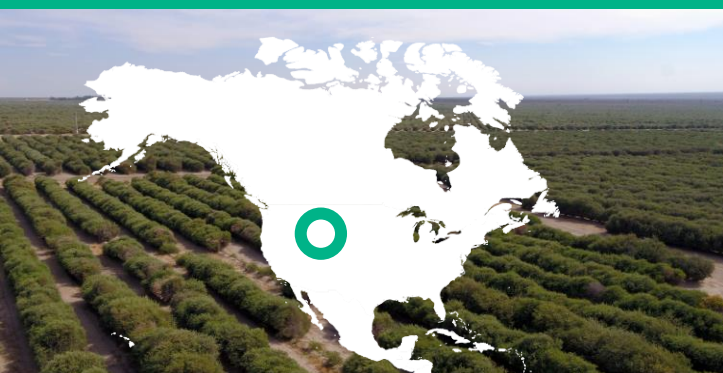
Fully integrated and secured supply chain

In 2012, Vantage™ started its From Farms to Formulations™ initiative to provide total transparency of the supply chain of jojoba oil. Our jojoba is harvested at Vantage™ owned and operated farms and the oil is processed and purified at our facilities. We carry safety stocks of unprocessed seeds and jojoba oil all year long in order to supply our customers without interruption. As the only supplier with geo-diversified farms in Argentina and USA, and a global network of 18 warehouses, Vantage™ is committed to supporting its clients with its global reach and local touch.

Agrinsa farm, Argentina



El Niño farm, USA



Crop selection and harvest



Jojoba oil extraction and refining



Controlled enzymatic inter-esterification



Quality control and performance evaluation



Our full control over the entire transformation chain guarantees the best and reproducible quality