

Nature's Esters Control Moisture



**In Plants.
In People.**

Nature controls moisture and protects skin in all plants and animals with combinations of esters. Pure Natural Jojoba Esters are such ester combinations.





100% Pure Natural Jojoba Esters

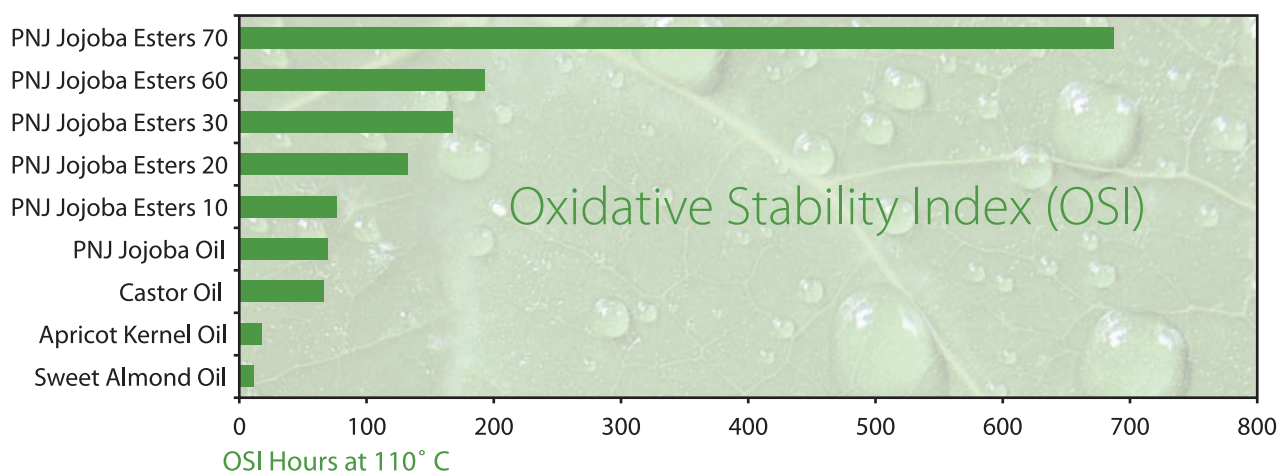
Nature protects skin and controls moisture with extremely stable, semi-occlusive esters that have a range of molecular weights. This variation affects rates of absorption, depth of penetration and duration of action to accommodate ever-changing environmental challenges to a wide variety of skin types. This array of straight-chain, monounsaturated oil-soluble esters found in PNJ Jojoba Esters exceeds the functionality of synthetic esters.

Extraordinary Oxidative Stability

- Longest botanical shelf-life.
- Reduces anti-oxidant requirements.

Reduces Oxygen Free Radicals

- Reduces peroxidation of skin lipids from sunlight.
- Helps prevent collagen damage.
- Helps maintain cell membrane and DNA integrity.



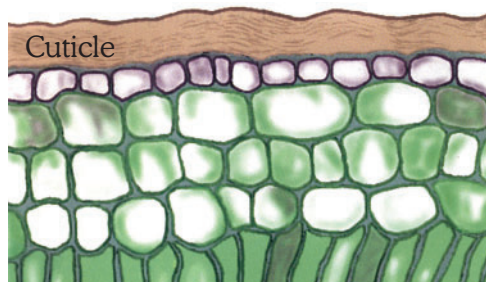
Pure Natural Jojoba Esters' Semi-Occlusive Moisture Control Barrier Reduces Signs of Aging and Photo-aging.

- Reduces wrinkles and fine-line "crow's feet."
- Reduces roughness, dryness and flaking.
- Firms up lax and sagging skin.

Other Jojoba Functions Enhance Product Value

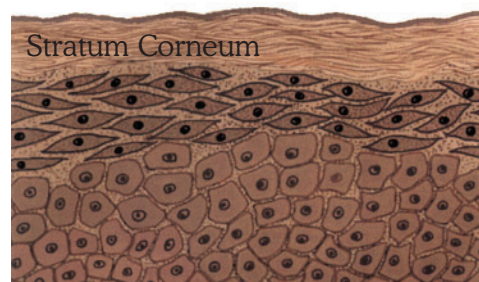
- Fixes fragrances, carries pigments, sunblockers, and other actives.
- Works well with other ingredients including silicones.
- Rapid onset of absorption and long duration of effectiveness.
- Hypoallergenic and non-comedogenic.
- Consumers like and trust "oil-free jojoba."

In Plants



Leaf Tissue: The waxy cuticle forms the major barrier to water loss in most plants. Its surface is coated with epicuticular wax esters that are very similar to those of jojoba.

In People



Skin Tissue: The stratum corneum forms the major barrier to water loss in people. Its surface is coated with sebum that contains 25-30% liquid wax esters very similar to those of jojoba.



100% Pure Natural Jojoba Esters



PNJ Jojoba Esters 10

- PNJ Jojoba Esters 10 is a colorless array of oil-free, transfat-free liquid esters. It provides semi-occlusive moisture control for excellent emolliency and its extraordinary oxidative stability adds shelf life to products. It is multifunctional in a very wide range of skin and hair products, particularly conditioners and scalp treatments.
- PNJ Jojoba Esters 10 is also well-known for its spreadability, slip-slide lubricity, and ability to very rapidly carry many active ingredients to an optimal depth within the stratum corneum.
- HLB Requirement 6 - 7
- With a melting point of 6-10° C. it is liquid at ambient temperature.



PNJ Jojoba Esters 20

- “Better than butter!” Jojoba Esters 20 is a soft, white, oil-free, transfat-free ingredient. Its evenly spreadable consistency provides elegant emolliency and body to lotions and creams. It also can carry fragrances, sunblockers and other ingredients.
- HLB Requirement 5.3 - 7.5
- With a melting point of 42-46° C, it rapidly melts on the skin.

PNJ Jojoba Esters 30

- PNJ Jojoba Esters 30 is a white, creamy, paste of oil-free, transfat-free array of esters with a texture that adds body and viscosity adjustment to formulations, while providing smooth, non-oily, non-tacky feel to skin care products.
- HLB Requirement 4.3 - 7.5
- With a melting point of 47-51° C, it melts on the skin.

PNJ Jojoba Esters 60

- PNJ Jojoba Esters 60 is a white, firm, semi-solid wax used as a thickener to provide structure and strength to stick products and heavy creams, while providing smooth, non-oily, non-tacky feel to the skin.
- HLB Requirement 5.2 - 8.5
- It has a melting point of 57-61° C.



PNJ Jojoba Esters 70

- PNJ Jojoba Esters 70 is a white crystalline wax that gives body, strength and structure to stick products. It improves payout and pigment dispersion while providing a smooth, non-greasy feel to the skin.
- HLB Requirement 4.3 - 9.6
- It is extremely resistant to oxidation, long-acting and has a melting point of 67-71° C.



About Purcell Jojoba International

Purcell Jojoba is now celebrating over 27 years of producing jojoba and its derivatives. We were the first to introduce Certified Organic Jojoba to the personal care industry in 1996. Our production and processing are Certified Organic by QAI.

In 2006 we completed our new PNJ Jojoba Bead and PNJ Jojoba Ester production plants.



Our production and processing plants are totally dedicated to 100% Pure Natural Jojoba. Contamination with any other ingredients such as sunflower, almond or apricot oil is impossible since no other material ever touches our facilities.

Detailed information on the following topics is available at our website: www.purcelljojoba.com

PNJ Jojoba Products

PNJ Jojoba Oils

- PNJ Golden Jojoba Oil
- PNJ Deodorized Golden Jojoba Oil
- PNJ Deodorized Clear Jojoba Oil
- PNJ Winterized Golden Jojoba Oil
- PNJ Certified Organic Golden Jojoba Oil
- PNJ Certified Organic Clear Jojoba Oil

PNJ Jojoba Exfoliant Beads

- PNJ Jojoba Beads 16/20
- PNJ Jojoba Beads 20/40
- PNJ Jojoba Beads 28/60
- PNJ Jojoba Beads 40/60
- PNJ Jojoba Beads 60/100
- PNJ Jojoba Meal

PNJ Jojoba Esters

- PNJ Jojoba Esters 10
- PNJ Jojoba Esters 20
- PNJ Jojoba Esters 30
- PNJ Jojoba Esters 60
- PNJ Jojoba Esters 70

Technical Information

- MSDS
- Spec Sheets
- Publications



Purcell Jojoba

INTERNATIONAL

To purchase or for more information, contact us:

P.O. Box 659, 142 Front Street,
Avila Beach, California 93424 USA

Phone: (805) 595-7275

Toll free: 1-800-676-1501 Email: info@purcelljojoba.com

Fax: (805) 595-9138 www.purcelljojoba.com