

NEOSSANCE[®]

Squalane



HIGH PURITY with CONSISTENT COMPOSITION RENEWABLE SOURCE and RELIABLE SUPPLY

SQUALANE is one of the highest quality and most versatile emollients on the market due to its sensorial profile, biocompatibility and consistently robust composition.

It is a non-polar, fully saturated, and very stable hydrocarbon which also happens to be naturally present in the skin. It is an exceptional moisturizer, preventing moisture loss and imparting suppleness and flexibility to skin. Due to its exceptional properties, squalane has been a long time favorite of cosmetic formulators.

Squalane provides a silky, smooth and luxurious touch, without a greasy, heavy after feel.

Through its industrial bioscience platform, Amyris has developed a unique process that enables the production of plant sugar derived, pure squalane. It offers reliable supply and a stable price.

Neossance Squalane resists oxidation and is stable to UV and temperature variations. It has a consistently robust composition.

CORE BENEFITS

1 STABLE SUPPLY	2 STABLE PRICE	3 DERIVED FROM PLANT SUGAR	4 RENEWABLE SOURCE
5 CONSISTENT COMPOSITION	6 NATURALLY PRESENT IN THE SKIN	7 GREAT SENSORIAL PROFILE	8 READILY BIODEGRADABLE

CERTIFICATIONS

ECOCERT-approved

USDA Certified Bio-based Product

PROVEN PERFORMANCE**

SKIN CARE

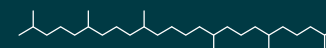
- Non-comedogenic
- Increases cell turnover
- Provides moisture
- Improves skin elasticity
- Reduces the appearance of wrinkles and fine lines
- Enhances skin barrier integrity

HAIR CARE

- Prevents moisture loss and nourishes
- Provides heat protection and strengthens hair
- Penetrates the hair shaft
- Improves shine
- Enhances elasticity and prevents breakage

TYPICAL PROPERTIES

INCI NAME: Squalane



TEST DESCRIPTION	SPECIFICATION LIMITS		UNIT OF MEASURE
	MINIMUM	MAXIMUM	
PURITY BY GAS CHROMATOGRAPHY	92		Area%
DENSITY @ 20° C	0.806	0.811	g/cc
REFRACTIVE INDEX @ 20° C	1.449	1.453	
IODINE NUMBER		2	g I ₂ /100g
ACID NUMBER		0.5	mg KOH/g
ODOR	Nearly odorless		
APPEARANCE & COLOR	Colorless liquid		

COSMETIC APPLICATIONS: Skin, Hair, Sun and Body Care, Baby Care, Makeup, Cleansers.

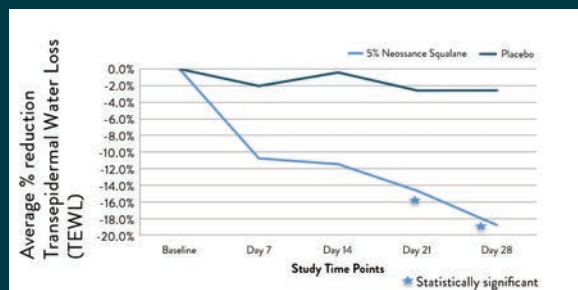
Usage level: Up to 100%

NEOSSANCE®

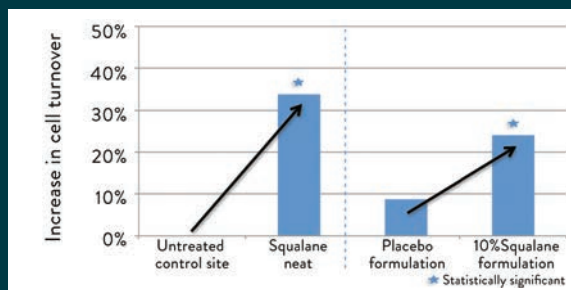
Squalane

PROVEN PERFORMANCE**

REDUCES TEWL BY 19%



INCREASES CELL TURNOVER BY 34%



REDUCES APPEARANCE OF WRINKLES BY 51%



**Note: Purchasers of squalane from Aprinova are solely responsible for ensuring compliance of their cosmetic products with all applicable regulatory requirements, including claims regarding the effect of squalane on skin or hair.

APRINNOVA STORY

Amyris and NIKKOL GROUP have created the joint venture Aprinova, LLC. Amyris was founded with the vision of making a positive impact on the world through science. Amyris uses breakthrough science to convert plant-sugars into high-performance products. NIKKOL GROUP is one of the world's leaders in cosmetic ingredients. Nikko has been involved in the sugarcane-based squalane business since the product's inception by Amyris and has focused its business



on the core strategy "Green, Clean, Sustainable + Economy (GCS+E)". Aprinova offers three leading cosmetic ingredients derived via fermentation of sugarcane: NEOSSANCE® Squalane and Nikko Sugar Squalane, high quality emollients, and NEOSSANCE® Hemisqualane, a sustainable alternative to fluid silicones and isohexadecane. Aprinova develops sustainable chemical raw material solutions for responsible brands.

SUSTAINABLE SOLUTIONS for RESPONSIBLE BRANDS

 **APRINNOVA**
A Joint Venture of
Amyris & NIKKOL GROUP

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