PERSONAL
CARE

INDORAMA
VENTURES

OXISMOOTH®

Multifunctional green emollients that deliver unique benefits with superior sensory experiences in a wide range of cosmetics

OXISMOOTH® is a green ester emollient line made from 100% renewable carbon. The line comprises esters produced by the reaction of responsibly sourced palm oil with Isoamyl Alcohol obtained from the upcycling of fusel oil from sugar cane production.

OXISMOOTH® CP

(Isoamyl Caprylate Caprate)

Green emollient with high spreadability, very dry touch and quickly absorption

OXISMOOTH® CO

(Isoamyl Cocoate)

An efficient green alternative for silicone as skin and hair conditioning agent

OXISMOOTH® ST

(Isoamyl Palmitate/Stearate)

Green emollient with high spreadability and low tack as mineral oil alternative

BENEFITS

- Different sensory profiles
- Moisturizing and conditioning
- High spreadability
- Quick absorption
- Low tack
- Non-occlusive
- Pleasant sensorial, natural skin feel withnon-oily and dry touch
- Easy to handle and processable under cold conditions
- Preservative free
- Dermatologically tested
- Silicone replacement alternative

PROPERTIES

APPEARANCE

LIQUID AT 25 °C

TRANSPARENT PALE YELLOW

LOW VISCOSITY

SHELF LIFE

2 YEARS

RECOMMENDED DOSAGE

FROM 0.5%

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SENSORY ASSESSMENT

Assessment of sensory attributes where esters were evaluated by 15 volunteers' in vivo evaluation.

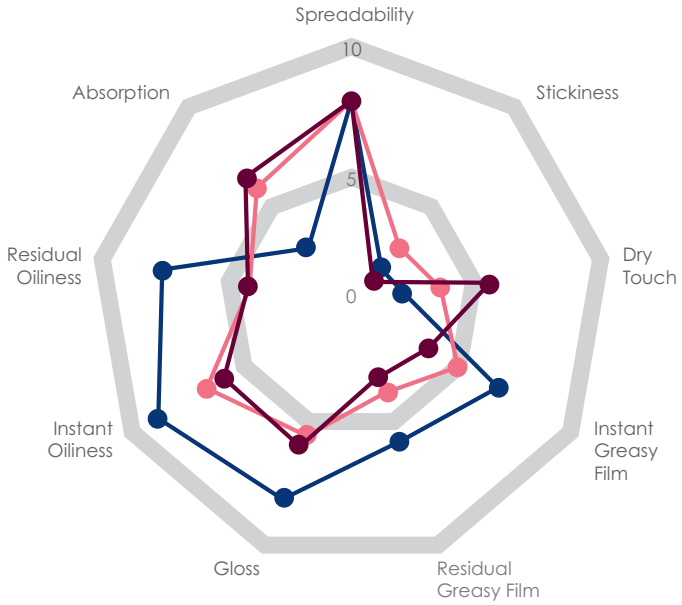
1. The three emollients of OXISMOOTH® line were applied neat to the skin.

2. With an automatic pipette, a defined amount of emollient was placed onto a demarcated area of the forearm skin of each panellist and spread.

3. After evaluation, panellists were instructed to givescores from 0 to 10 to nine selected attributes, and mean scores for each attribute were plotted in a radar chart below.

OXISMOOTH® – Sensory Panel

OXISMOOTH® CO — OXISMOOTH® ST — OXISMOOTH® CP



	SENSORY ATTRIBUTES	OXISMOOTH® CP	OXISMOOTH® CO	OXISMOOTH® ST
APPLICATION	SPREADABILITY	High	High	High
	STICKINESS	Low	Low	Low
	DRY TOUCH	High	Medium	Low
VISUAL	INSTANT GREASY FILM	Low	Medium	High
	RESIDUAL GREASY FILM	Low	Medium	High
	GLOSS	Medium	Medium	High
FUNCTIONAL	INSTANT OILINESS	Medium	Medium	High
	RESIDUAL OILINESS	Medium	Medium	High
	ABSORPTION	High	High	Low

Rating

High — Medium — Low

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PROVEN RESULTS

Tests	Description	OXISMOOTH® CP	OXISMOOTH® CO	OXISMOOTH® ST
COSMOS REFERENCE, CERTIFIED BY ECOCERT	Raw material has been assessed as compliant with the COSMOS standard	●	●	●
100% FROM RENEWABLE SOURCES	Raw materials derived from sugar cane and fatty acids of renewable origin	●	●	●
BIODEGRADABLE	Immediate Biodegradability Test-OECD Guidelines for the Testing of Chemicals. Ready Biodegradability. Closed Bottle Test. 301 D, 1992	●	●	●
DERMATOLOGICALLY **TESTED**	RIPT (Repeat Insult Patch Test)	●	●	●
NON-PHOTOTOXIC	Phototoxicity Evaluation - Balb/C 3T3 NRU method, according to the protocol described by the OECD 432	●	●	●
NON-CYTOTOXIC	Cytotoxicity evaluation - Balb/C 3T3 NRU method, according to the protocol described in ISO 10993-5 and OECD 129.	●	●	●
24-HOUR HYDRATION	Corneometer	○	●	●

APPLICATIONS

Skin Care

Men Care

Bath & Shower

Deodorants

Baby Care

Hair Care