



Jeelux® D2T

Dimethicone (and) Isohexadecane (and) Triisostearyl Citrate
(and) Bis-Vinyl Dimethicone/Dimethicone Copolymer
*Patented** Film Integrity

Jeelux® D2T helps to improve your film integrity. This silicone ester blend consists of Triisostearyl Citrate (and) Isododecane (and) Bis-Vinyl Dimethicone/Dimethicone Copolymer. **Jeelux® D2T** produces a “Bonding Matrix” that is strong enough to hold color, actives, sunscreens, and emollients in a natural and comfortable manner. The occlusive nature of this material allows for the addition of ingredients that becomes part of the matrix without affecting adhesion or the integrity of the film. This bond will provide sustained integration of actives onto the skin or hair. Lower levels of **Jeelux® D2T** reduce film thickness creating an invisible and lasting mesh. Higher levels of **Jeelux® D2T** increase film thickness and provide an exceptional high gloss layer. This unique combination provides a major difference when comparing the components singularly, in that **Jeelux®** product that will lay down the most comfortable, flexible, and non-tacky film in the market.



KEY BENEFITS:

- Ease of use
- Slick feel without tack
- Light feel
- Moisturizing
- Transfer resistant
- Long wear
- Comfortable
- Gentle adhesion



PRODUCT APPLICATIONS:

- Creams/Lotions
- Make-up
- Moisturizers
- Sun Care
- Lip Care
- Hair Care

* US Patent No. 7,407,666

Typical Properties	
Appearance @ 25°C	Clear liquid
Refractive Index @ 25°C	1.42 - 1.43
Viscosity @ 25°C (Brookfield HB, SP #4 @ 20 rpm)	500 - 1,000 cps
Recommended use levels	Hair care products: 0.5 - 2.5% Skin care products: 5 - 15% Body care products: 3 - 5% Color cosmetics: 10 - 25%

D2T Physical Sunscreen Stick (Estimated SPF 50)

Phase	INCI Name	%	Vendor	Highlight Jeen Ingredients
A	JEELUX® D2T (Isohexadecane, Dimethicone, Triisostearyl Citrate, Bis-vinyl Dimethicone/dimethicone Copolymer)	26.300	JEEN	Patented Jeelux® The 'Jeelux' line of ingredients are patented, providing Silicone/Ester functionality in 1 easy-to-use ingredient. Jeelux D2T provides benefits from our polymer & ester combination, such as shine, skin feel and film formation. However, the combination provides a major difference when comparing these ingredients singularly, in that Jeelux D2T has a film that is very comfortable, flexible and non-tacky. A Linear Polyethylene with a Melt Point of 85°C. Use this polyethylene to add thickness/structure to your oil phase. At low percentages, Jeenate 5H will provide a light feel and enhanced film formation for sun care or active delivery, as well as enhance the stability profile. Primarily used as a structuring agent for a stick application. Use at 5 - 10%.
	JEECHEM® CAP-2 (Caprylyl Glycol, Phenoxyethanol, Hexylene Glycol)	0.2000	JEEN	
	JEECIDE® DMC-19 (PEG/PPG-18/18 Dimethicone)	0.5000	JEEN	
	Permethyl 101A (Isohexadecane)	28.0000		
	JEEWAX® SUN (Helianthus Annuus (Sunflower) Seed Wax)	4.0000	JEEN	
	JEENATE® 5H (Polyethylene)	11.0000	JEEN	
B	JEEPERSE® ZOTN-65 (Zinc Oxide (USP)/C12-15 Alkyl Benzoate, DEA Oleth 3 Phosphate, Triethoxycaprylylsilane)	20.0000	JEEN	Use this excellent and versatile titanium dioxide dispersion for its optimal ease of use where a broad spectrum UV Protection is needed. This unique dispersion provides a much higher level of UVA Protection than traditional sunscreen grades of titanium dioxide while simultaneously improving manufacturing process and reducing yield loss.
	JEEPERSE® T50TN (C12-15 Alkyl Benzoate, titanium Dioxide, triethoxycaprylylsilane, Castor Oil Phosphate)	10.0000	JEEN	

Procedure: 1. Mix Phase A while increasing temperature to 80-85°C. 2. Add Phase B. 3. Mix until homogeneous. 4. Pour at 80-85°C and chill.

Please contact your JEEN Representative or visit our website at www.JEEN.com to learn more about our products, our technologies and how we can help you reduce your carbon footprint and produce a greener product.

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Jeelux D2T ver 1.0