



Koster Keunen Holland bv

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PRODUCT DATA SHEET

ORANGE PEEL WAX

Orange Peel Wax is a soft orange vegetable wax obtained from the rind of the orange fruit after separation from orange essential oils and citrus terpenes. The wax protects the fruit against the environment while at the same time allowing breathing and maintenance of water balance. Composition and consistency are similar to lanolin. Orange Peel Wax can be looked upon as a vegetable version of that animal wax. In many formulations it can substitute lanolin.

Orange Peel Wax consists of a complex mixture of special esters (ca. 50-65 %, C44-C58), free fatty acids (6-15 %, C14-C22), hydrocarbons (8-15 %, C21-C33), free phytosterols (ca. 4-8 %) and free alcohols. In addition to this Orange Peel Wax contains small amounts of flavonoids, carotenoids, glycolipids and phospholipids which are well known for their anti-oxidant, anti-inflammatory, anti-microbial and sunscreen properties. The phytosterols in Orange Peel Wax act as co-emulsifiers aiding emulsion stability.

Orange Peel Wax is an emollient wax with excellent skin feel, contributing to barrier function, sunscreen enhancing and moisture regulation, offering similar protection to the human skin and hair as it does to the fruit.

Applications: emulsions, hair care, sun care, sticks

Specifications:

Appearance	semi-solid	
Melting point:	35- 60 °C	USP 741 Class II
Congeaing point:	30- 55 °C	ASTM D938
Acid value:	10- 20 mg KOH/g	USP 401
Saponification value:	70-110 mg KOH/g	USP 401
Hydroxyl Value	10-40 mg KOH/g	USP 401
Odour:	very light orange scent	
Colour:	Dark Orange / Brown	

CTFA/INCI-Name : Citrus Aurantium Dulcis (Orange) Peel Wax
EU : Citrus Aurantium Dulcis Peel Cera

More detailed information on this specialty wax of Koster Keunen is contained in the article by S.L. Puleo and A.W. Peters Rit in Cosmetics & Toiletries Magazine, 109(8), August 1994, pp. 42-48.