

Dekanex 2004 FG

28001

Description

Dekanex 2004 FG is a synthetic oil produced by oligomerisation of the 1-decene. Its non-greasy and silky skin feeling brings softness, emolliency and spreadability to formulations and can be considered as a sensory alternative to non volatile silicones. Being extremely pure and fully innocuous, this is the ideal ingredient for a large range of cosmetic products (skin care, sun care, make up, baby care,...)

JD item no: 28001

Listing

CosIng name: Hydrogenated Polydecene
(according to the CosIng European Commission ingredient database)

INCI name (US): Hydrogenated Polydecene
(according to the International Cosmetic Ingredient Dictionary and Handbook, Personal Care Products Council, 13th Edition, 2010)

CAS number: 68037-01-4

EINECS number: 500-183-1 (NLP)

Specifications

Property	Specification value	Typical value	Test method
Appearance:	Pass	(1) see note	ASTM D-4176-1
Odour:	Odourless	Odourless	Organolpetic
Viscosity:			ASTM D-445
at 100°C	3.7 – 4.3 mm ² /s	4.1 mm ² /s	
at 40°C	16 – 20 mm ² /s	18 mm ² /s	
at -40°C	≤ 3300 mm ² /s	3100 mm ² /s	
Pour Point:	≤ -60°C	-63°C	ASTM D-97
Flash Point:	≥ 200°C	225°C	ASTM D-92
Density (15°C):	810 – 830 kg/m ³	820 kg/m ³	ASTM D-4052
Carbonizable substances:	Pass	Pass	JECFA
Oligomer distribution:			CG analysis
C30	70 – 85%		
C40	13 – 25%		
C50	0 - 5%		
C60	0 – 0.7%		

(1) Clear and bright liquid on visual observance, and no water or particulates observed at the bottom of the vortex.

Applications and in-use concentration

Dekanex 2004 FG is compatible with common emollients, silicones and other oil phase ingredients. It is stable through a large range of pH and has excellent oxidation and thermal stability.

Suitable use concentrations are *ca.* 1 – 100 %.

Remark: this product is not intended for food application

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Storage and shelf life The product should be stored in original, unopened containers. Keep at room temperature (*ca.* 10 – 25 °C) in a dark and dry store room. Shelf life is 24 months after manufacturing when stored under the above-mentioned conditions in original unopened packaging.

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