




DYNASAN® 114 and 118

INCI: DYNASAN 114 - Trimyristin

DYNASAN 118 - Tristearin

-  Consistency regulator
-  Crystallization enhancer
-  Skin texture improver

DYNASAN® 114 and 118

INCI: Trimyristin and Tristearin

1. Description:

DYNASAN® microcrystalline triglycerides are glycerin esters of selected saturated, evennumbered and unbranched fatty acids of plant origin. They are free from antioxidants and other stabilizers.

2. Chemical and Physical Properties:

Tests	Value		Unit
	DYNASAN® 114	DYNASAN® 118	
Acid value	max. 3	max. 1.0	mg KOH/g
Saponification value	229 – 238	186 – 192	mg KOH/g
Hydroxyl value	max. 10	max. 5.0	mg KOH/g
Iodine value	max. 1*	max. 1.0	mg J ₂ /100 mg
Melting range	55 – 58 **	70 – 73 **	°C
Unsaponifiable matter	max. 0.5*	max. 0.5	%
Free glycerol	-	max. 0.5	%

* not included in Certificate of Analysis

** determined by DSC, Mettler

Besides these product-specific characteristic values, the products are distinguished by their stability against oxidation. The peroxide value is max. 3, the water content is max. 0.2. %.

3. Application:

If the individual grades of DYNASAN® are rapidly cooled after melting, glassy, amorphous masses are initially formed, which change upon standing into crystalline modifications having volume expansion. The stable β-modification has a very sharp melting point and a triclinic structure.

DYNASAN® 114 is slightly soluble in n-hexane and diethyl ether and has a very low solubility in ethanol.

DYNASAN® 118 is slightly soluble in n-hexane, as well as in diethyl ether and ethanol.

All types are virtually insoluble in water.

DYNASAN® 114 and 118






INCI: Trimyrustin and Tristearin

Cosmetic Functions:




DYNASAN® microcrystalline triglycerides are used in the cosmetic industries as adjuvants in stick formulations as crystallization accelerators and seeding agents to improve the solidification process.

Further they can be used in creams and lotions as body-imparting and structure-forming components.

Thus DYNASAN® 114, 118 use is suggested for:

-  Facial crème
-  Body lotion
-  Sun care
-  Foundations
-  Eye care
-  Lip sticks

 Powder: cartons with 25 kg

-  Store below 25°C
-  Protect light and moisture
-  Shelf life 24 months

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