

MiyoNAT ISA

Isostearic Acid Treated Pigments



- Excellent Dispersibility in Oils
- Stabilizes Pigments in Oils and Solvents
- Natural
- Not Derived from Palm Sourced Material

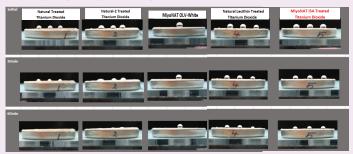
GENERAL INFORMATION

Isostearic acid is Vegetable-based methyl-branched saturated fatty acid with an 18 - carbon atom chain backbone. It offers a light lubricious feel and can be used in many skincare and color cosmetic applications. Alkylsilane treatment has been the gold standard for surface treatments by many raw material suppliers as well as surface treatment companies like Miyoshi America.

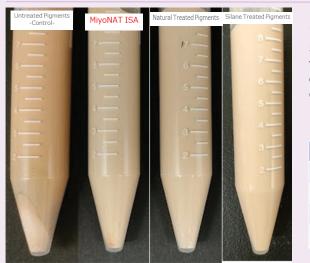
Alkylsilane is used because of its ability to be dispersed easily in many oils and formulations, and because of its relative low cost. With the current trend in "natural" materials, as well as fear of alkylsilane being pitched as a Micro Plastic Bead (MPB) once coated onto a powder, customers will have problems moving forward with no alternative solution. MiyoNAT ISA will be able to provide the "natural version" of alkylsilane treatment with exellent dispersibility in various oils.

INCI: Isostearic Acid

Strong Hydrophobicity



Three drops of water were placed on five different pressed cakes to measure the hydrophobicity of the different pigments in the pressed cakes. To measure this, the contact angle of the water droplet was measured after 30 minutes and 60 minutes. MiyoNAT ISA offered excellent hydrophobicity, comparable to Miyoshi America's MiyoNAT OLV-White.



Sedimentation:

Samples of different surface treatments were included in a liquid foundation. These vials were then placed in a centrifuge as a form of accelerated stability. All samples showed signs of sedimentation except for the MiyoNAT ISA foundation.

Product Lineup

Product Lineup	INCI
MiyoNAT ISA White-A2	Titanium Dioxide, Isostearic Acid
MiyoNAT ISA-YELLOW-2	Iron Oxide, Isostearic Acid
MiyoNAT ISA-RED-1	Iron Oxide, Isostearic Acid
MiyoNAT ISA-BLACK-1	Iron Oxide, Isostearic Acid

MIYOSHI EUROPE, S.A.S. 5 Rue Paul Rieupeyroux, 69800 Saint-Priest, FRANCE Phone: +33 (0)4 81 18 59 30 www.miyoshieurope.com yely, the "information") in this information sheets on an AS-18 basis. Miyoshi hereby disc shi or the Information to determine that the product supplied by Miyoshi and the Inform MIYOSHI SUZHOU, Inc MIYOSHI AMERICA, Inc MIYOSHI KASEL In MIYOSHI SUZHOU, Inc. No,26 SUB-Industrial Zone, No.666 Jianlin Road, Suzhou City, Jiangsu, CHINA 215151 Phone: +86-512-666-59282 4-3-14 Ichigaya Grassgate-5F Kudankita, Chiyoda-ku, Tokyo, 102-0073, JAPAN Phone: +81-(0)3-62656757 www.miyoshikasei.com 110 Louisa Viens Dr., PO Box 859, Dayville CT 06241, USA Phone: +1 860-779-3990 www.miyoshiamerica.com www.miyoshikasei.com

any liability arising under intellectual property law (including are being used safely and in accordance with applicable law ISA-LEAF-Aprit2023-V2-E Miyoshi is providing the suggestions and information on the use of the products suppl patent law), product liability law, or any claim for breach of warranty. It is the sole res ied by Miyoshi in cosmetic-related applica ponsibility of any user of the products su

MiyoNAT ISA

Isostearic Acid Treated Pigments

	MiyoNAT ISA Blush		UB	UBL0008				
	A smooth, light blush with excellent skin adhesion.							
	TRADE NAME	INCI	Supplier	%				
	MiyoNAT ISA White A2	Titanium Dioxide (and) Isostearic Acid	Miyoshi America	2.88				
	MiyoNAT ISA Red-1	Iron Oxides (and) Isostearic Acid	Miyoshi America	8.56				
A	MiyoNAT ISA Yellow-2	Iron Oxides (and) Isostearic Acid	Miyoshi America	0.18				
	Fine Snow	Rice Starch	Miyoshi America	9.00				
	MiyoNAT VLS-Mica CM-10	Mica (and) Hydrogenate Lecithin (and) Calcium Chloride	Miyoshi America	15.00				
	MiyoNAT VLS Sericite	Mica (and) Hydrogenated Lecithin (and) Calcium Chloride	Miyoshi America	16.00				
	MiyoSTAY SM	Synthetic Fluorphlogopite (and) Zinc Oxide (and) Hydroxyapatite	Miyoshi America	15.00				
	MiyoFEEL SXI-L	Mica (and) Silica (and) Hydrogenated Lecithin (and) Calcium Chloride	Miyoshi America	10.00				
	DRY-FLO® TS	Tapioca Starch (and) Polymethylsilsesquioxane	Nouryon	8.00				
	Magnesium Stearate	Magnesium Stearate	Making Cosmetics	5.86				
в	Softisan® 100	Hydrogenated Coco- Glycerides	IOI Oleo GmbH	2.54				
	KF-7312K	Trimethylsiloxysilicate (and) Dimethicone	Shin-Etsu	2.79				
	Bronidox® 1160	Phenoxyethanol	BASF	1.00				
	XIAMETER® PMX-200 Silicone Fluid 20 cSt	Dimethicone	Dow Chemical	3.19				
			Total	100.00				

Procedure:

1. Weigh Phase A in a blender and blend on high speed for 2 minutes. 2. Heat Phase B to 55-60°C in a beaker and mix with a propeller mixer until mixture is clear and

homogenous. 3. After Phase B is homogenous, add to Phase A and mix in blender for 2 minutes on high speed.

4. Press into desired blush pans. Pressing parameters will vary with pan size.

MiyoNAT ISA Waterproof Liquid Lip UES0004

A smooth, longwear formula that gives a matte effect without feeling dry.

	TRADE NAME	INCI	Supplier	%
A	GGEL™ 100V	Dimethicone (and) Ethylhexyl Palmitate (and) Quaternium-90 Bentonite (and) Propylene Carbonate	Applechem	54.00
	Gransil SBG 11 #1	Dimethicone Polysilicone-11(and) Butyrospermum Parkji Shea Butter	Grant	11.00
	Yellow Carnauba Wax NF	Copernicia Cerifera (Carnauba) Wax	Koster Keunen	5.00
	Haiamalate DIS	Diisostearyl Malate	Miyoshi America	6.00
	Lipo® IDD 99A	Isododecane	Vantage	4.00
	Indopol® H-300	Polybutene Synthetic Fluorphlogopite	INEOS Oligomers	6.00
в	MiyoSYN Matte	Synthetic Fluorphlogopite	Miyoshi America	2.00
	Kaolin 2000C	Kaolin	KaMin Solutions	3.00
	MiyoNAT ISA White A2	Isostearic Acid (and) Titanium Dioxide	Miyoshi America	1.10
С	MiyoNAT ISA Yellow-2	Iron Oxides and Isostearic Acid	Miyoshi America	2.60
~	MiyoNAT ISA Red-1	Iron Oxides and Isostearic Acid	Miyoshi America	1.90
	MiyoNAT ISA Black-1	Iron Oxides and Isostearic Acid	Miyoshi America	0.40
D	Phytoblend TIPS	Symphytum Officinale Leaf Extract(and) Tilia Cordata Flower Extract(and) Paeonia Suffruticosa	Miyoshi America	1.00
	Vitamin E Acetate	Root Extract Tocopherol Acetate	Spectrum Chemical	1.00
	Vanilla Flavor	Vanillin	Bulk Apothecary	1.00
			Total	100.00

Procedure:

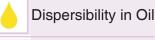
Weigh Phase A into beaker and mix at 140°C until uniform.
 Add Phase B to the beaker and mix until uniform. About 5 minutes.

- Add Phase C to the beaker and homogenize at 5000 rpm 130°C for 20 minutes.
 Add Phase D to the beaker and homogenize at 5000 rpm 130°C for 20 minutes.
 Pour at 75°C into desired component.

Hydrophobicity

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