

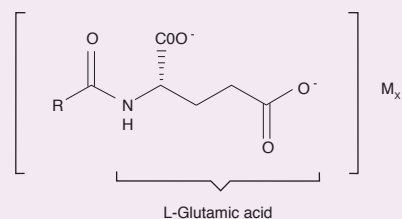
# NAI

## Amino Acid Treated Pigment

- Strong Hydrophobicity
- Skin Affinity / Skin-Friendly
- Long-Lasting
- Gives Comfortable Feeling to Formula
- Highly Stable in Emulsion

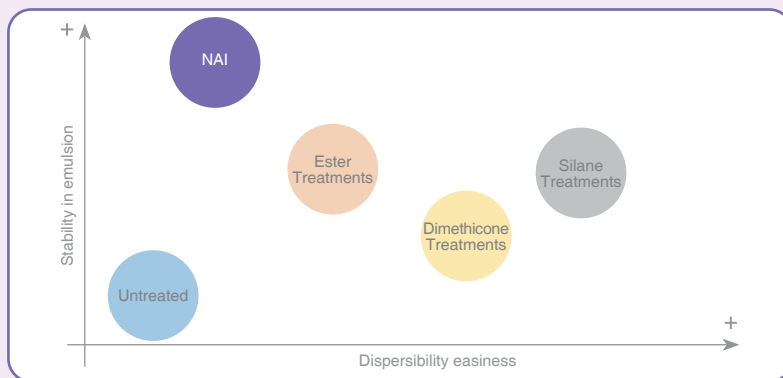
### GENERAL INFORMATION




Over 15 years ago, Miyoshi Kasei introduced its novel Amino Acid surface treatment technology for cosmetic applications. This patented technology, designated NAI, is based on the chemical bonding of Disodium Stearoyl Glutamate to pigments and substrates. The NAI treatment was quickly embraced worldwide because of its unique benefits. The compatibility of NAI treated pigments in emulsion systems has been amply demonstrated by their usage in a number of commercially available foundations. NAI is longwearing and provides a moist, dewy feel while being much easier to disperse in oils and silicones.



RCO - : fatty acid residu  
M : H, Na, K or TEA  
X : 1,2

### DISPERSIBILITY AND STABILITY



Surface Treatment	Chemical composition	Description	Main Benefits	Oil type Affinity	Typical Applications
NAI	Disodium Stearoyl Glutamate (and) Aluminium Hydroxide	Hydrophobic Vegetal origin	Skin adhesion/ Improve emulsion stability Long-lasting	Esters Silicones Plant Oils	 Hyper-fluid foundation  Foundation  Natural origin

# NAI

## Amino Acid Treated Pigment

### W/SI Foundation

FDT-N017

The formula is easy to apply and has excellent make-up performance.



	Trade Name	INCI Name	Supplier	%
A	NAI-TAO-77891	Titanium Dioxide (and) Disodium Stearoyl Glutamate (and) Aluminum Hydroxide	Miyoshi Europe	11,40
	NAI-C339001-10	Iron Oxide (and) Disodium Stearoyl Glutamate (and) Aluminum Hydroxide	Miyoshi Europe	2,90
	NAI-C338001-10	Iron Oxide (and) Disodium Stearoyl Glutamate (and) Aluminum Hydroxide	Miyoshi Europe	0,40
	NAI-C337001-10	Iron Oxide (and) Disodium Stearoyl Glutamate (and) Aluminum Hydroxide	Miyoshi Europe	0,30
	KF 96 A 6 Cts	Dimethicone	Shin-Etsu	20,00
B	MiyoSYN Matte-ALT	Synthetic Fluorphlogopite (and) Triethoxycaprylylsilane (and) Aluminum hydroxide	Miyoshi Europe	10,00
	SA-SB-300(7%)	Silica (and) Dimethicone	Miyoshi Europe	4,00
	KF 6017	PEG-10 Dimethicone	Shin-Etsu	3,00
	Bentone Gel ISDV	Isododecane (and) Distearidimonium Hectorite (and) Propylene Carbonate	Elementis /DKSH	4,00
C	Water	Water	-	38,10
	Sulfate de magnesium	Magnesium Sulfate	Carl Roth	0,75
	Keltrol CG SFT	Xanthan Gum	Azelis	0,15
	Butylene glycol	1.3 Butylene glycol	Interchimie	5,00
	Mikrokill Cos	Phenoxyethanol (and) Caprylyl Glycol (and) Chlorphenesin	Lonza/Masso	0,80

#### Procedure:

1. Grind Phase A using a three-roller mill.
2. Add Phase A to Phase B.
3. Add Phase C to Phase AB under stirring (Turbotest VMI, propeller disperser) 3 minutes, maximum speed (3300 rpm).
4. Continue to stir 5 minutes at maximum speed (3300 rpm).

### W/O Foundation

WOC-J051

A W/O foundation with a powdery finish formulated in order to reach high natural origin content.



	Trade Name	INCI Name	Supplier	%
A	NAI-White B1	Titanium Dioxide (and) Disodium Stearoyl Glutamate (and) Aluminum Hydroxide	Miyoshi Europe	13,00
	NAI-C339001-10	Iron Oxide (and) Disodium Stearoyl Glutamate (and) Aluminum Hydroxide	Miyoshi Europe	1,70
	NAI-C338001-10	Iron Oxide (and) Disodium Stearoyl Glutamate (and) Aluminum Hydroxide	Miyoshi Europe	0,25
	NAI-C337001-10	Iron Oxide (and) Disodium Stearoyl Glutamate (and) Aluminum Hydroxide	Miyoshi Europe	0,08
	Emulium Illustro	Polyglyceryl-6 Polyhydroxystearate (and) Polyglyceryl-6 Polyrinoleate (and) Polyglycerin-6	Gattefossé	2,50
B	Dermofeel Sensolv MB	Isoamyl Laurate	Evonik / Adara	15,00
	Emulium Illustro	Polyglyceryl-6 Polyhydroxystearate (and) Polyglyceryl-6 Polyrinoleate (and) Polyglycerin-6	Gattefossé	2,50
C	Bentone Gel LC V	C9-12 Alkane (and) Distearidimonium Hectorite (and) Triethyl Citrate	Elementis /Saci-Cfpa	3,00
	Water	Water	-	52,97
	Sulfate de Magnesium	Magnesium Sulfate	Carl Roth	2,00
	Chlorure de sodium	Sodium Chloride	Carl Roth	1,00
	A Leen Aroma 3	Phenylpropanol	Minasolve / Verfilcos	0,80
	Silica Bead SB-700	Silica	Miyoshi Europe	5,00
	Solagum AX	Acacia Senegal Gum (and) Xanthan Gum	Seppic	0,20

#### Procedure:

1. Grind Phase A using a three-roller mill with 2,50% of Emulium Illustro and a little of Dermofeel Sensolv MB .
2. Add Phase A to Phase B.
3. Add Phase C to Phase AB under stirring (Turbotest VMI, propeller disperser) 3 minutes, maximum speed (3300 rpm).
4. Continue to stir 5 minutes at maximum speed (3300 rpm).



Enhanced Feel



Strong Hydrophobicity



Long-Lasting

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