

# ALT

## Alkyl Silane Treated Pigments

- Improves pigments dispersibility
- High affinity with various oils: Silicones, Esters, Triglycerides
- High Coverage
- Suitable for all make up applications: Emulsions, powders and anhydrous
- Creamy texture

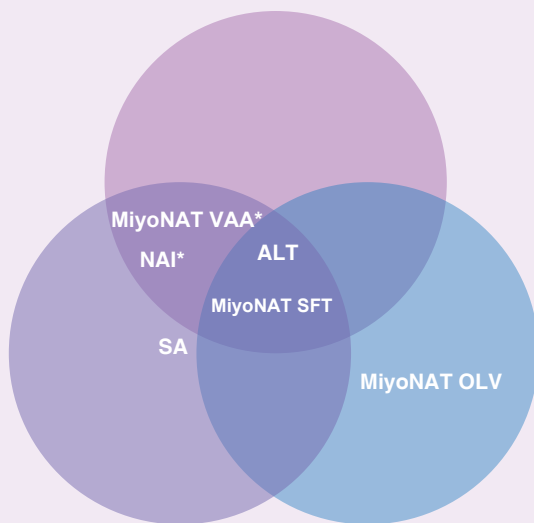
### GENERAL INFORMATION

Triethoxycaprylsilane treated pigments offer benefits of both silicone and hydrocarbon treatments with the presence of hydrocarbon chain on silicone backbone.

Alkyl Silane treated pigments have excellent dispersibility in various oils: esters, mineral oils, plant oils and silicone fluids.

The lipophilic caprylyl group offers excellent hydrophobicity and unique creamy/adhesive feel in powders and liquid formulations. It allows good coverage onto the skin thanks to its affinity with sebum.

### DISPERSIBILITY DIAGRAM





The colloid dispersion was observed under a light microscope and pigment dispersibility was evaluated according to the number of grains, their sizes and dispersion homogeneity.

All dispersions were made with a propeller mixer (Rayneri VMI, 3300rpm, 1h).

\* : Need a stronger grinding equipment

- Silicone Oil (Cyclopentasiloxane)
- Ester Oil (Isononyl Isononanoate)
- Plant Oil (Capric/Caprylic Triglycerides)

Surface Treatment	Chemical composition	Description	Main Benefits	Oil type Affinity	Typical Applications
ALT	Triethoxycaprylsilane	Hydrophobic Silicone	Enhanced Feeling/ Easy to Disperse/ Oil Versatility	All Types Tested	 Pressed powder  Eye shadow  Foundation  Hyper-Fluid Foundation

### ALT Treatment:

Triethoxycaprylsilane treatment is commonly used as an alternative to Dimethicone. It brings more adhesion onto the skin than classic silicone treatments and offers excellent dispersibility in various oils.

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W/SI Foundation

FDT-N016

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



	Trade Name	INCI Name	Supplier	%
A	ALT-TAO-77891	Titanium Dioxide (and) Triethoxycaprylylsilane	Miyoshi Europe	11,40
	ALT-C339001-10	Iron oxides (and) Triethoxycaprylylsilane	Miyoshi Europe	2,90
	ALT-C338001-10	Iron oxides (and) Triethoxycaprylylsilane	Miyoshi Europe	0,40
	ALT-C337001-10	Iron oxides (and) Triethoxycaprylylsilane	Miyoshi Europe	0,30
	KF 96 A 6 Cts	Dimethicone	Shin-Etsu	20,00
B	MiyoSYN Matte-ALT	Synthetic Fluorophlogopite (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).



Hydrophobicity



Enhanced Feel



Excellent Coverage

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