

Treatment Code	INCI	Properties	Formula Applications	Dispersion Availability
Lipophilic Treatment				
ITT	Isopropyl Titanium Triisostearate	<ul style="list-style-type: none"> Highly Lipophilic Allows high pigment loading in esters, mineral oils or hydrocarbons; good for cream-to-powder formulations Improves compressibility in pressed powders and reduces breakage Excellent affinity to the skin Creamy skin feel US 5108736A 	KBL-015A KLF-223A KLP-179A KCP-018 KLG-082 KLP-234-BR KCP-043A-EU KLP-133A-BR KPP-099A KHP-009A KLP-153 KPP-105-BR KLF-220B-BR KLP-162 KPP-109-EU	(CO) Ricinus Communis (Castor) Seed Oil (INB/INW) Isononyl Isononanoate (ND) Diisostearyl Malate (PMLVP) Isododecane (PT1BM) Phenyl Trimethicone (SW) Synthetic Wax (WE) Polyglyceryl-4 Isostearate, Cetyl PEG/PPG-10/1 Dimethicone, Hexyl Laurate
ASI*	Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride	<ul style="list-style-type: none"> Hydrophobic; Lipophilic Combines ITT with Amino Acid Treatment Creamy texture & moisturizing feel Uniform spreading 	KPP-033 Recommended Applications: Emulsions, Hot Pours, Powders, Anhydrous Gels	-
Silicone Treatment				
11S	Triethoxycaprylylsilane	<ul style="list-style-type: none"> Hydrophobic; Lipophilic Compatible with esters, oils & silicones Stable at pH of 3 No hydrogen potential Nice spreadability, creamy, wet feeling 	KBL-024 KLP-175 KPP-094A-BR KEY-048E-BR KLP-177 KPP-114 KLF-233-BR KPP-131A KSL-401 KLF-264D KPP-064G	(FAS) Cyclopentasiloxane, PEG/PPG-18/18 Dimethicone; (FAND) Dimethicone, PEG/PPG-18/18 Dimethicone
DS	Dimethicone	<ul style="list-style-type: none"> Hydrophobic Good slip and lubricity over methicone treatment Good for wet/dry powders and W/Si emulsions 	Recommended Applications: W/Si Emulsions, Hot Pours, Gels, Powders	-
MS	Methicone	<ul style="list-style-type: none"> Very Hydrophobic Stable at pH 3-9 Good for wet/dry powder and W/Si Emulsions Not very compatible with esters, oil and water based emulsions 	Recommended Applications: W/Si Emulsions, Hot Pours, Powders, Anhydrous Gels	-
Hybrid Treatment				
11SP	Triethoxycaprylylsilane (And) Polyhydroxystearic Acid	<ul style="list-style-type: none"> Hydrophobic; Lipophilic Disperses easily into oil phase and develops full color fast Silky skin feel Pressed powders can be made using silicone as the sole liquid binder US 9662280B2; US 9254398B2; WO 2010111279; CN 102361702B; JP 6184099B2; EP 2411162A4 	KCC-014A-BR KLF-158A KEY-099 KPP-031A	-
TTB	Isopropyl Titanium Triisostearate (And) Triethoxysilylethyl Polydimethylsiloxyethyl Dimethicone	<ul style="list-style-type: none"> Hydrophobic; Lipophilic "Super dispersible" in all media Stable over a range of pH Good skin affinity to skin, resulting in long wear US 10064792B2 	KEL-015 KLF-269 KPP-102A KLF-220-BR KLP-172 KPW-003F KLF-224 KPP-067A	(CM) Cyclopentasiloxane (FAS) Cyclopentasiloxane, PEG/PPG-18/18 Dimethicone (FADM) Dimethicone, PEG/PPG-18/18 Dimethicone

Fluorinated Treatment

FS

*Perfluorohexylethyl
Triethoxysilane*

- Hydrophobic; Lipophobic
- Pigments display long wear and stay true color
- Excellent spreadability
- Suitable for wet/dry formulas and dry water formulas
- Environmentally friendly; No Perfluorooctanoic Acid (PFOA)
- Licensee of Avon US 6315990

KEY-046A-BR KLP-171 KPP-112
KEY-094 KLP-237A KPW-015G
KLP-167A KPP-061D
KLP-168 KPP-108-EU

(FAS) Cyclopentasiloxane,
PEG/PPG-18/18 Dimethicone

Recommended Applications:
Emulsions, Hot Pours, Powders

Natural Treatment

ASGP

*Stearoyl Glutamic Acid
(And) Polyhydroxystearic
Acid*

- Hybrid treatment
- Hydrophobic; superdispersible
- Minimal energy use during grinding
- Quick, uniform color development
- Creamy feel, improved wear; aid in pressing powders
- US 9662280B2

Recommended Applications:
Emulsions, Hot Pours,
Powders, Anhydrous Gels

ASG

*Stearoyl Glutamic
Acid*

- Hydrophobic
- Ecocert approved
- Aluminum free
- Imparts a creamy feel particularly in powders
- Offers good skin adhesion of pigment to the skin
- Pigments disperse easily into recommended application

KBL-018A KLP-145 KPP-125
KCP-050 KLU-018D KPW-028A
KEY-039E KPP-104A
KLP-122B KPP-116

(DO) Diisostearyl Malate,
Octyldodecanol
(GCB) Caprylic/Capric Triglyceride
(GCC) Caprylic/Capric Triglyceride

Recommended Applications:
Emulsions, Hot Pours, Powders,
Anhydrous Gels

MM

Magnesium Myristate

- Hydrophobic; Lipophilic
- Vegetable derived
- Highly creamy feel and low odor
- Good adhesion to the skin
- Improved wear
- Excellent pressability

KEY-029B

Recommended Applications:
Hot Pours, Powders

NJE

Jobaba Esters

- Hydrophobic; Lipophilic
- Natural Origin; Ecocert approved
- Odorless; Excellent heat stability
- Creamy feel
- Good skin affinity
- Good pressability in powders
- US 8623386B2; WO 2009126859

KLK-092B KLU-029A
KLP-125 KPP-020E
KPW-007H

(OD) Octyldodecanol
(JOH) Simmondsia Chinensis
(Jobaba) Seed Oil

Recommended Applications:
Emulsions, Hot Pours, Powders, Gels

NOE

*Hydrogenated Olive Oil
Stearyl Esters*

- Hydrophobic; Lipophilic
- Odorless
- Excellent heat stability
- Soft and emollient feel
- Good skin affinity
- Powders can be pressed w/o additional dry binders

KPP-127

Recommended Applications:
Anhydrous Hot Pours, Powders

CL & NPC

*Lecithin (And)
Hydrogenated Lecithin*

- Hydrophobic yet moisturizing
- Highly creamy feel and good affinity to the skin
- Heat sensitive (CL)

KLF-259D-BR (NPC)

Recommended Applications:
Hot Pours (NPC), Powders

SIH*

Silica

- Hydrophilic; Good dispersibility in water
- Less sedimentation in water
- Iron Oxides and TiO₂ are Ecocert approved
- Less surface activity
- Brighter color

KEY-120A

Recommended Applications:
Emulsions, Hot Pours, Powders, Gels

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