

Treatment Code	INCI	Properties	Formula Applications	Dispersion Availability
Lipophilic Treatment				
ITT	<i>Isopropyl Titanium Triisostearate</i>	<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 Patent #4,877,604 	KBL-015A KCP-018 KHP-009A KLF-223 KLF-235A-BR KLG-082 KLP-136C KLP-153 KLP-162 KLP-170 KLP-179A KPP-099A KPP-105-BR KPP-109-EU	(CO) Ricinus Communis (Castor) Seed Oil (IN) Isononyl Isononanoate (PMLVP) Isododecane (PT1BM) Phenyl Trimethicone (SW) Synthetic Wax (WE) Polyglyceryl-4 Isostearate, Cetyl PEG/PPG-10/1 Dimethicone, Hexyl Laurate
ASI*	<i>Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride</i>	<ul style="list-style-type: none"> Hydrophobic; Lipophilic By combining ITT with Amino Acid Treatment, pigments are rendered lipophilic, making them easily dispersible in oils Creamy texture Moisturizing feel Uniform spreading 	KPP-033 Recommended Applications: Emulsions, Hot Pours, Powders, Gels	-
Silicone Treatment				
11S	<i>Triethoxycaprylylsilane</i>	<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-021A KBL-024 KEY-048E-BR KLF-119A KLF-188A KLF-233-BR KLP-116 KLP-175 KLP-177 KPP-062B-BR KPP-064G KPP-072A KPP-094A-BR	(FAS) Cyclopentasiloxane, PEG/PPG-18/18 Dimethicone; (FAND) Dimethicone, PEG/PPG-18/18 Dimethicone; (TN) C12-15 Alkyl Benzoate
DS	<i>Dimethicone</i>	<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, Powders	-
MS	<i>Methicone</i>	<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 	KEY-015A Recommended Applications: W/Si Emulsions, Hot Pours, Powders	-
Hybrid Treatment				
11SP	<i>Triethoxycaprylylsilane (and) Polyhydroxystearic Acid</i>	<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 Patent US #9254398; China #ZL 201080013615.8 	KCC-014A-BR KLF-158A KLF-173A KPP-031A	Recommended Applications: Emulsions, Hot Pours, Powders
TTB	<i>Isopropyl Titanium Triisostearate (And) Triethoxysilylethyl Polydimethylsiloxyethyl Dimethicone</i>	<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 Patent Pending #WO/2005/099651 	KEL-015 KLF-220-BR KLF-224 KLP-101A KLP-172 KMU-008 KPP-067A KPP-102A KPW-003F	(CM) Cyclopentasiloxane (FAS) Cyclopentasiloxane, PEG/PPG-18/18 Dimethicone (FADM) Dimethicone, PEG/PPG-18/18 Dimethicone
DS-PDL3*	<i>Dimethicone (And) Cetearyl Alcohol (And) Stearic Acid (And) Ceramide (And) Phytosterols</i>	<ul style="list-style-type: none"> Hydrophobic; Lipophilic PDL3 mimics stratum corneum intercellular lipid Excellent skin protection effect (barrier function to maintain moisture) Excellent skin compatibility and adhesion 	KLP-142 KPP-078B Recommended Applications: Emulsions, Hot Pours, Powders	-

Fluorinated Treatment

FS	<i>Perfluorooctyl Triethoxysilane</i>	<ul style="list-style-type: none"> 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 Patent #6,315,990 	<p>KEY-046A-BR KEY-094 KLF-122E-BR KLP-167</p>	<p>KLP-168 KLP-171 KMA-065B KPP-061D</p>	<p>KPP-075B KPP-108-EU KPW-015G</p>	<p>(DID) Diisopropyl Dimer Dilinoleate (FAS) Cyclopentasiloxane, PEG/PPG-18/18 Dimethicone</p>	<p>Recommended Applications: Emulsions, Hot Pours, Powders</p>
FHS*	<i>Perfluorooctyl Triethoxysilane</i>	<ul style="list-style-type: none"> Hydrophobic; Lipophobic No PFOA FHS-A Mica and Talc contain Aluminum Chloride (in INCI) AlCl3 meets USP grade 					<p>Recommended Applications: Emulsions, Hot Pours, Powders</p>

Natural Treatment

ASG	<i>Stearoyl Glutamic Acid</i>	<ul style="list-style-type: none"> Hydrophobic Natural origin; 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 	<p>KBL-018A KEY-039E KLF-236A KLF-241</p>	<p>KLF-201A-BR KLP-122B KLP-145 KMU-010</p>	<p>KMU-018D KPW-028 KPP-063E KPP-104A</p>	<p>(DO) Diisostearyl Malate, Octyldodecanol (GCB) Caprylic/Capric Triglyceride (GCG) Caprylic/Capric Triglyceride</p>	<p>Recommended Applications: Emulsions, Hot Pours, Powders, Anhydrous Gels</p>
CL	<i>Lecithin</i>	<ul style="list-style-type: none"> Hydrophobic; Lipophilic Natural Exceptional smooth and silky skin feel particularly in pressed powders Heat sensitive 		<p>KPP-018</p>			<p>Recommended Applications: Powders</p>
MM	<i>Magnesium Myristate</i>	<ul style="list-style-type: none"> Hydrophobic; Lipophilic Natural origin; Vegetable derived Highly creamy feel and low odor Good adhesion to the skin Improved wear Excellent pressability 	<p>KEY-029A</p>	<p>KEY-035A</p>			<p>Recommended Applications: Hot Pours, Powders</p>
NJE	<i>Jjoba Esters</i>	<ul style="list-style-type: none"> Hydrophobic; Lipophilic Natural origin; Ecocert Approved Odorless; Excellent heat stability Creamy feel Good skin affinity Good pressability in powders US Patent #8,623,386 B2 	<p>KLP-125 KPP-020E KPP-056A</p>	<p>KPP-103A KPW-007H</p>		<p>(OD) Octyldodecanol (JOH) Simmondsia Chinensis (Jjoba) Seed Oil</p>	<p>Recommended Applications: Emulsions, Hot Pours, Powders</p>
PC	<i>Hydrogenated Lecithin</i>	<ul style="list-style-type: none"> Hydrophobic yet moisturizing Natural origin Highly creamy feel and good affinity to the skin 		<p>KPP-041B</p>			<p>Recommended Applications: Hot Pours, Powders</p>
ASL*	<i>Sodium Lauroyl Glutamate (And) Lysine (And) Magnesium Chloride</i>	<ul style="list-style-type: none"> Hydrophobic Gemini Type Amphiphilic Amino Acid Treatment Adds water proofness Moisturizing Effect Good Feel Natural, Ecocert approved 					<p>Recommended Applications: Emulsions, Pressed Powders</p>
SIH*	<i>Silica</i>	<ul style="list-style-type: none"> Hydrophilic; Good dispersibility in water Less sedimentation in water Iron Oxides and TiO₂ are Ecocert approved Less surface activity Brighter color ZnO meets USP, pps 10-30 nm 					<p>Recommended Applications: Emulsions, Hot Pours, Powders, Gels</p>

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