

Treatment Code	INCI	Properties	Formula Applications	Dispersion Availability
Fluorinated Treatment				
FS	Perfluorooctyl Triethoxysilane	<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 	KEY-046A-BR KPP-061D KLF-122E-BR KPP-068B KLF-125B-BR KPP-075B KMA-065B KPW-015G Recommended Applications: Emulsions Hot Pours Powders	(DID) Diisopropyl Dimer Dilinoleate; (FAS) Cyclopentasiloxane, PEG/PPG-18/18 Dimethicone
FHS*	Perfluorooctyl Triethoxysilane	<ul style="list-style-type: none"> Hydrophobic; Lipophobic No PFOA FHS-A Mica and Talc contain Aluminum Chloride (in INCI) ALCl3 meets USP grade 	KLF-134 Recommended Applications: Emulsions Hot Pours Powders	No
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 Patent US #9254398 	KCC-014A-BR KLF-158A KLF-066A KLF-173A KLF-153B-BR KPP-031A Recommended Applications: Emulsions Hot Pours Powders	No
TTB	Isopropyl Titanium Triisostearate (And) Triethoxysilylethyl Polydimethylsiloxylethyl 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 Patent Pending #WO/2005/099651 	KBL-010 KLP-015E KPP-067A KEL-015 KMU-008 KPP-102A KLF-105A KMU-020B KPW-003F Recommended Applications: Emulsions Hot Pours Powders	(FAS) Cyclopentasiloxane, PEG/PPG-18/18 Dimethicone (FADM) Dimethicone, PEG/PPG-18/18 Dimethicone
DS-PDL3*	Dimethicone (And) Cetearyl Alcohol (And) Stearic Acid (And) Ceramide (And) Phytosterols	<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	No
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 Patent #4,877,604 	KBL-015A KLF-157-EU KLP-098 KCP-018 KLF-175B KLP-109C KHP-009A KLF-222C KLP-148A KLF-044B-CH KLG-007D KPP-013H KLF-045D-CH KLP-055A KPP-099A Recommended Applications: Emulsions Hot Pours Powders	(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*	Isopropyl Titanium Triisostearate (And) Sodium Lauroyl Aspartate (And) Zinc Chloride	<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	No

Natural Treatment						
ASG	Stearoyl Glutamic Acid	<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 	KBL-018A KCP-038 KEY-039E KLF-096D	KLF-167 KLP-145 KMU-010 KMU-018D	KPP-063E KPP-074A KPP-104A KPW-018 Recommended Applications: Emulsions Hot Pours Anhydrous Gels Powders	(GCB) Caprylic/Capric Triglycerides (GCG) Caprylic/Capric Triglyceride, Polyglyceryl-3 Diisostearate
CL	Lecithin	<ul style="list-style-type: none"> Hydrophobic; Lipophilic Natural Exceptional smooth and silky skin feel particularly in pressed powders Heat sensitive 		KPP-018 Recommended Applications: Powders	No	
MM	Magnesium Myristate	<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 		KEY-029A KEY-035A KPP-047 Recommended Applications: Hot Pours Powders	No	
NJE	Jajoba Esters	<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 	KLF-045A KLF-055A KLP-060 KLP-125	KPP-020E KPP-023 KPP-056A KPP-103A	KPW-007C KPW-012B KPW-016 Recommended Applications: Emulsions Hot Pours Powders	(OD) Octyldodecanol
PC	Hydrogenated Lecithin	<ul style="list-style-type: none"> Hydrophobic yet moisturizing Natural origin Highly creamy feel and good affinity to the skin 		KPP-041B Recommended Applications: Hot Pours Powders	No	
ASL*	Sodium Lauroyl Glutamate (And) Lysine (And) Magnesium Chloride	<ul style="list-style-type: none"> Hydrophobic Gemini Type Amphiphilic Amino Acid Treatment Adds water proofness Moisturizing Effect Good Feel Natural, Ecocert approved 		Recommended Applications: Emulsions Pressed Powders	No	
SIH*	Silica	<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 		Recommended Applications: Emulsions Hot Pours Powders Gels	No	
Silicone Treatment						
11S	Triethoxycaprylylsilane	<ul style="list-style-type: none"> Hydrophobic; Lipophilic More compatible with ester & oils than silicone treatment Stable at pH of 3 No hydrogen potential Nice spreadability, creamy, wet feeling 	KBL-021A KEY-003A KEY-015A KEY-048E-BR KLF-079	KLF-086 KLF-119A KPP-049B KPP-064G KPP-094A-BR	(FAND) Dimethicone, PEG/PPG-18/18 Dimethicone; (FAS) Cyclopentasiloxane, PEG/PPG-18/18 Dimethicone; (TN) C12-15 Alkyl Benzoate	
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 Powders	No	
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 		KEY-015A Recommended Applications: W/Si Emulsions Hot Pours Powders	No	

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