

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 KMA-065B KPP-075B KPW-015G Recommended Applications: Emulsions Hot Pours Powders	(DID) Diisopropyl Dimer Dilinoleate; (FAS) Cyclopentasiloxane, PEG/PPG-18/18 Dimethicone
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; China #ZL 201080013615.8 	KCC-014A-BR KLF-153B-BR KLF-066A KLF-158A 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 	KEL-015 KLF-224 KPP-067A KLF-105A KLP-101A KPP-102A KLF-220-BR KMU-008 KPW-003F Recommended Applications: Emulsions Hot Pours Powders	(FAS) Cyclopentasiloxane, PEG/PPG-18/18 Dimethicone (FADM) Dimethicone, PEG/PPG-18/18 Dimethicone
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 KLP-098 KCP-018 KLP-109C KHP-009A KLP-136C KLF-044B-CH KLP-148A KLF-157-EU KLP-153 KLG-082 KPP-013H 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

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-145A-BR	KLF-167 KLP-122B KLP-145 KMU-010	KMU-018D KPP-063E KPP-074A KPP-104A	(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		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		No
NJE	Jojoba 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 	KLP-060 KLP-125	KPP-020E KPP-056A	KPP-103A	(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		No

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-021A KEY-003A KEY-015A KEY-048E-BR KLF-079	KLF-086 KLF-119A KPP-049B KPP-064G KPP-094A-BR	(FAS) Cyclopentasiloxane, PEG/PPG-18/18 Dimethicone; (FAND) Dimethicone, 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 				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		No