

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 	KBL-014 KLF-125-BR KEY-046-BR KPP-061A KHP-003A KPP-068 KLF-067A KPW-015G KLF-122D-BR 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 	KEY-030G KLF-066A KLF-173 KLF-060A-CH KLF-158 KPP-031A Recommended Applications: Emulsions Hot Pours Powders	No
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 Patent Pending #WO/2005/099651 	KBL-010 KLP-015E KCC-001D KLP-101 KEL-015 KMU-008 KLF-056A KPP-067 KLF-105A KPW-003F Recommended Applications: Emulsions Hot Pours Powders	(FAS) Cyclopentasiloxane, 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-009A KLF-044B-CH KLP-098 KBL-015 KLF-045D-CH KLP-108 KCP-010 KLF-157-EU KLP-109C KCP-014 KLF-175 KPP-013G KCP-018 KLG-007E KPP-017C2 KHP-009A KLP-055A 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-018 KCP-038 KEY-039B KLF-096D KLF-167	KMU-010 KPP-063B KPP-074 KPP-080 KPW-018	Recommended Applications: Emulsions Hot Pours Anhydrous Gels Powders	(GCB) Caprylic/Capric Triglycerides
CL	Lecithin	<ul style="list-style-type: none"> Hydrophobic; Lipophilic Natural Exceptional smooth and silky skin feel particularly in pressed powders Heat sensitive 	KPP-017C2 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-025B KEY-029A KEY-035 KPP-011	KPP-014A KPP-022B KPP-047	Recommended Applications: Hot Pours Powders	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 	KLF-044A KLF-045A KLF-055A KLP-060 KPP-020E	KPP-023 KPP-041B 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-035A	KPP-041B	Recommended Applications: Hot Pours Powders	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 KCC-009 KEY-003A KEY-015A KEY-048B-BR	KLF-079 KLF-086 KLF-119A KLP-088A-EU KPP-049B	Recommended Applications: Emulsions Hot Pours Powders	(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 			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 KPP-009D	KPP-010C	Recommended Applications: W/Si Emulsions Hot Pours Powders	No