



D5 Alternative Ingredients

Overview

AB Specialty Silicones' D5 alternatives are formulated to address the growing regulatory concerns about the environmental safety of cyclopentasiloxane, commonly known as D5.

Emulsifiers

Andisil® Silicone Emulsifiers can be used for a variety of systems including: W/O, O/W, W/Si and Si/W. They also provide a soft, silky feel to the end product.

Name	INCI Name	HLB	Viscosity	Active Content
Andisil® SP 2318	Dimethicone (and) PEG/PPG-18/18 Dimethicone	2.0	50 cSt	25%
Andisil® SP 2318C 50% Conc.	Dimethicone (and) PEG/PPG-18/18 Dimethicone	2.0	500 cSt	50%

Product	Recommendations for Skin Care	Applications	Benefits	
Andisil® SP 2318	Cyclic free emulsifier for W/O and W/S emulsions	<ul style="list-style-type: none"> • Antiperspirant / Deodorant • Creams • Color Cosmetics • Lotions • Serums • Sun Care • Shaving 	<ul style="list-style-type: none"> • Cushion • Emulsifiers • Film Forming Properties • Moisturizing • Organic Compatibility • Skin Protectant • Wash Off Resistance 	<ul style="list-style-type: none"> • Water Repellency • Wetting Agent
Andisil® SP 2318C	Concentrated cyclic free emulsifier for W/O and W/S emulsions used in most skin care applications			

Linear Siloxane

Andisil® Linear Siloxanes for personal care offer comparable properties to cyclic siloxanes. As the viscosity of the fluid increases the volatility decreases. These are linear carriers that mimic the properties of cyclic siloxanes providing emolliency and water resistance to lotions and creams when used in skin care applications.

Name	INCI Name	Viscosity	Purity %
Andisil® SF 3.5	Dimethicone	3.5 cSt	--

Product	Recommendations for Skin Care	Applications	Benefits
Andisil® SF 3.5	Partial Volatility; potential D5 replacement based on volatility profile	<ul style="list-style-type: none"> • Antiperspirant / Deodorant • Cleansers • Creams • Color Cosmetics • Lotions • Serums • Sun Care 	<ul style="list-style-type: none"> • Lubrication • Spreadability • Suitable for clear formulations

Product	Recommendations for Hair Care	Applications	Benefits
Andisil® SF 3.5	Recommended for similar volatility to D5	<ul style="list-style-type: none"> • Shampoo • Conditioner • Antiperspirant & Deodorant 	<ul style="list-style-type: none"> • Anti Frizz • Foam Modifier • Lubrication

Resin Blend

Andisil® Resin Blends are essential for longer wear, wash-off resistance and film-forming benefits in skin and hair care formulations.

Name	INCI Name	Viscosity	Resin Content %	RI
Andisil® MQ 2350	Dimethicone (and) Trimethylsiloxysilicate	80 cSt	50	1.406

Product	Recommendations for Skin Care	Applications	Benefits	
Andisil® MQ 2350	Provides comfortable long wear with a volatile, non-cyclic carrier fluid. Leaves a silky finish on the skin.	<ul style="list-style-type: none"> • Creams • Color Cosmetics • Sun Care 	<ul style="list-style-type: none"> • Film Forming Properties • Long Wear • Lubrication • Skin Protectant 	<ul style="list-style-type: none"> • Suitable for Clear Formulations • Transfer Resistance • Wash Off Resistance • Water Repellency



D5 Alternative Ingredients (Continued)

Product	Recommendations for Hair Care	Applications	Benefits
Andisil® MQ 2350	A cyclic free material, recommend for long lasting hold and soft texture.	<ul style="list-style-type: none"> Styling Treatments 	<ul style="list-style-type: none"> Anti-Frizz Improves Texture Shine Enhancer Soft / Supple Feel

Gum Blends

Andisil® Gum Blends combine volatile siloxanes with high molecular weight gums providing excellent water resistance. They are recommended for anhydrous formulations.

Name	INCI Name	Viscosity	Gum Content %
Andisil® SF 2305	Dimethicone (and) Dimethiconol	3,000 cP	15
Emulsions Andisil® Gum Blend Emulsions offer ease-of-use when added to water-based formulations.			
Andisil® EM 2305 CG	Dimethicone (and) Dimethiconol (and) Laureth-23 (and) Laureth-4	3,000 cP	15

Product	Recommendations for Skin Care	Applications	Benefits
Andisil® SF 2305	Recommended to improve texture and water resistance in sun care applications	<ul style="list-style-type: none"> Cleansers Creams Color Cosmetics 	<ul style="list-style-type: none"> Suitable for Clear Formulations Wash off Resistance Water Repellency
Andisil® EM 2305 CG	Recommended to improve texture in sun care and cream	<ul style="list-style-type: none"> Lotions Serums Sun Care 	<ul style="list-style-type: none"> Cushion Film Forming Lubrication Organic Compatibility Skin Protectant Spreadability

Product	Recommendations for Hair Care	Applications	Benefits
Andisil® SF 2305	Linear carrier; recommended for moisturizing treatments	<ul style="list-style-type: none"> Conditioner (leave in) Styling Treatments 	<ul style="list-style-type: none"> Anti-Frizz Conditioning Ease of Formulation For Dry / Damaged Hair Improves Dry Combing
Andisil® EM 2305 CG	Intermediate volatility of the linear carrier gum blend emulsions		<ul style="list-style-type: none"> Improves Wet Combing Improves Texture Low Residue/Light Build Up Soft/Supple Feel

* These properties are not intended to be used as specifications but only as suggested characteristics

For additional information on the product, please contact your Sales Representative.

We believe that the information shown in this Product Bulletin to be an accurate description of the typical characteristics and/or uses of the product. Any suggestions of uses are not to be taken as an inducement to infringe any particular domestic or foreign patent. We recommend that the product be thoroughly tested for a specific application to determine the performance, efficacy and its safe handling and use.

Beauty.
In the hands of the
formulator

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