



# Cyclic Alternative Ingredients

## Overview

AB Specialty Silicones' cyclic alternatives are formulated to address the growing regulatory concerns about the environmental safety of ingredients that contain cyclics.

### 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 <b>50% Conc.</b>	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"> <li>Antiperspirant / Deodorant</li> <li>Creams</li> <li>Color Cosmetics</li> <li>Lotions</li> <li>Serums</li> <li>Sun Care</li> <li>Shaving</li> </ul>	<ul style="list-style-type: none"> <li>Cushion</li> <li>Emulsifiers</li> <li>Film Forming Properties</li> <li>Moisturizing</li> <li>Organic Compatibility</li> <li>Skin Protectant</li> <li>Wash Off Resistance</li> </ul>
Andisil® SP 2318C	Concentrated cyclic free emulsifier for W/O and W/S emulsions used in most skin care applications		<ul style="list-style-type: none"> <li>Water Repellency</li> <li>Wetting Agent</li> </ul>

### 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 2	Dimethicone	2 cSt	99.0
Andisil® SF 3.5	Dimethicone	3.5 cSt	--

  

Product	Recommendations for Skin Care	Applications	Benefits
Andisil® SF 2	Recommended for medium volatility	<ul style="list-style-type: none"> <li>Antiperspirant / Deodorant</li> <li>Cleansers</li> <li>Creams</li> <li>Color Cosmetics</li> <li>Lotions</li> <li>Serums</li> <li>Sun Care</li> </ul>	<ul style="list-style-type: none"> <li>Lubrication</li> <li>Spreadability</li> <li>Suitable for clear formulations</li> </ul>
Andisil® SF 3.5	Partial Volatility; potential D5 replacement based on volatility profile		

  

Product	Recommendations for Hair Care	Applications	Benefits
Andisil® SF 2	Recommended for medium volatility	<ul style="list-style-type: none"> <li>Shampoo</li> <li>Conditioner</li> <li>Antiperspirant &amp; Deodorant</li> </ul>	<ul style="list-style-type: none"> <li>Anti Frizz</li> <li>Foam Modifier</li> <li>Lubrication</li> </ul>
Andisil® SF 3.5	Recommended for similar volatility to D5		

### 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"> <li>Creams</li> <li>Color Cosmetics</li> <li>Sun Care</li> </ul>	<ul style="list-style-type: none"> <li>Film Forming Properties</li> <li>Long Wear</li> <li>Lubrication</li> <li>Skin Protectant</li> <li>Suitable for Clear Formulations</li> <li>Transfer Resistance</li> <li>Wash Off Resistance</li> <li>Water Repellency</li> </ul>



## Cyclic 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"> <li>• Creams</li> <li>• Color Cosmetics</li> <li>• Sun Care</li> </ul>	<ul style="list-style-type: none"> <li>• Film Forming Properties</li> <li>• Long Wear</li> <li>• Lubrication</li> <li>• Skin Protectant</li> </ul>

### 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 2205	Dimethicone (and) Dimethiconol	3,000 cP	15
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 2205 CG	Dimethicone (and) Dimethiconol (and) Laureth-23 (and) Laureth-4	3,000 cP	15
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 2205	Recommended for smooth application and film forming properties in creams, lotions and serums	<ul style="list-style-type: none"> <li>• Cleansers</li> <li>• Creams</li> <li>• Color Cosmetics</li> <li>• Lotions</li> <li>• Serums</li> <li>• Sun Care</li> </ul>	<ul style="list-style-type: none"> <li>• Cushion</li> <li>• Film Forming</li> <li>• Lubrication</li> <li>• Organic Compatibility</li> <li>• Skin Protectant</li> <li>• Spreadability</li> </ul>
Andisil® SF 2305	Recommended to improve texture and water resistance in sun care applications		
Andisil® SF 2205 CG	Recommended for smooth application and feel; non-cyclic blend		
Andisil® EM 2305 CG	Recommended to improve texture in sun care and cream		

Product	Recommendations for Hair Care	Applications	Benefits
Andisil® SF 2205	Linear carrier; recommended for leave in treatments; most volatile of the linear carrier gum blends	<ul style="list-style-type: none"> <li>• Conditioner (leave in)</li> <li>• Styling Treatments</li> </ul>	<ul style="list-style-type: none"> <li>• Anti-Frizz</li> <li>• Conditioning</li> <li>• Ease of Formulation</li> <li>• For Dry / Damaged Hair</li> <li>• Improves Dry Combing</li> </ul>
Andisil® SF 2305	Linear carrier; recommended for moisturizing treatments		
Andisil® EM 2205 CG	Most volatile of the linear carrier gum blend emulsions; best option for formulations requiring short play times		
Andisil® EM 2305 CG	Intermediate volatility of the linear carrier gum blend emulsions		

\* 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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