



# Polyether Copolymers

## Overview

Andisil® Polyether Copolymers for personal care are used as emulsifying and co-solubilizing agents of siloxane and organic systems. They also offer varying hair conditioning properties when used in hair care formulations.

## Product Specifications\*

Name	INCI Name	HLB	Viscosity	Cloud Pt, 1% Aq.
Andisil® SP 4410	PEG-10 Dimethicone	4.5	500 cP	--
Andisil® SP 1818	PEG/PPG-18/18 Dimethicone	7.0	2,500 cP	44 °C
Andisil® SP 4414B	Bis-PEG-12 Dimethicone	8.7	--	--
Andisil® SP 4410B	Bis-PEG-10 Dimethicone	10.5	300 cP	70 °C
Andisil® SP 4414	PEG-12 Dimethicone	13.0	400 cP	95 °C

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

## SKIN CARE

Applications		Benefits	
<ul style="list-style-type: none"> <li>Cleansers</li> <li>Creams</li> <li>Color Cosmetics</li> <li>Lotions</li> <li>Sun Care</li> </ul>	<ul style="list-style-type: none"> <li>Antiperspirant / Deodorant</li> <li>Shaving</li> </ul>	<ul style="list-style-type: none"> <li>Foam Stabilization</li> <li>Lubrication</li> <li>Moisturization</li> <li>Organic Compatibility</li> <li>Skin Protectant</li> </ul>	<ul style="list-style-type: none"> <li>Spreadability</li> <li>Suitable for Clear Formulations</li> <li>Tack Reduction</li> <li>Wetting Agent</li> <li>Water Solubility</li> </ul>

## Application Recommendations

Name	
Andisil® SP 4410	Recommended for reduced skin irritation and water solubility; recommended for antiperspirants
Andisil® SP 1818	Recommended for applications that need a surface tension depressant and improved wetting properties
Andisil® SP 4414B	Recommended for skin care applications where lubricity, softness and conditioning are desired
Andisil® SP 4410B	Recommended for use with organic compounds to improve surface tension
Andisil® SP 4414	Provides softness and lubricity to lotions and creams; also used as a surface tension depressant. Improves foam stability and density when foaming is desired

*Beauty.*  
In the hands of the formulator



## Polyether Copolymers

(continued)

HAIR CARE		
Applications	Benefits	
<ul style="list-style-type: none"><li>• Shampoo</li><li>• Conditioner (leave in)</li><li>• Styling Treatments</li></ul>	<ul style="list-style-type: none"><li>• Conditioning</li><li>• Emulsifier</li><li>• Foam Booster</li></ul>	<ul style="list-style-type: none"><li>• Soft/Supple Feel</li><li>• Surface Tension Reducer</li></ul>

### Application Recommendations

Name	
Andisil® SP 4410	Recommended for hair care formulations where foam booster and humectant are desired
Andisil® SP 4414B	Recommended for hair care applications where softness, shine and conditioning properties are desired; surface tension reducer
Andisil® SP 4410B	Recommended for hair care applications in need of soft feel and conditioning properties
Andisil® SP 4414	Recommended for hair care applications in need of a surface tension reducer, and/or foam booster; imparts silky, soft, supple texture and improves wet/dry combability without build up after repeated use

### Storage & Shelf Life

The shelf life, when the container is stored unopened and under proper conditions at room temperature, is expected to be a minimum of twelve months.

### Packaging

Andisil® Polyether Copolymers for personal care packaging options are available upon request.

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.

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