



Hair Care



Silicone Ingredients For Custom Solutions.

WAUKEGAN, IL | [WWW.ANDISIL-PERSONAL-CARE.COM](http://WWW.ANDISIL-PERSONAL-CARE.COM)



# Custom Capabilities & Blending

- » Silicones formulated to suit your needs
- » Specialty silicone product line inspired by current market trends
- » Custom blending capabilities offering ease of formulation and cost reduction
- » Full range of cyclics, cyclic blends, dimethicones, and volatile linear fluids for the formulator
- » Top quality service from synthesis to delivery
- » US Manufacturer & Illinois-based warehousing resulting in minimal lead times



New!

## Resin Blends

Silicone Resins are essential for longer wear, wash-off resistance and film-forming benefits in skin care formulations

TRADE NAME	INCI NAME	APPLICATION
Andisil® MQ 50C* 50% Resin	Cyclopentasiloxane (and) Trimethylsiloxysilicate	Recommended for styling applications to provide long lasting benefits.
Andisil® MQ 2350* 50% Resin	Dimethicone (and) Trimethylsiloxysilicate	A cyclic free material, recommend for long lasting hold and soft texture.
Andisil® MQ 3250* 50% Resin	Phenyltrimethicone (and) Trimethylsiloxysilicate	High refractive index provides long lasting shine in styling applications.
Andisil® MQ 3430* 30% Resin	Diphenyl Dimethicone (and) Trimethylsiloxysilicate	Smooth texture that offers long lasting shine; film forming benefits, with a non-volatile carrier.

*\*Percent resin content or carrier fluid can be customized to meet your specific formulation requirements*

## Emulsifiers

Recommended for a variety of systems including: W/O, O/W, W/Si and Si/W; add a soft, silky feel to the end product

TRADE NAME	INCI NAME	APPLICATION
Andisil® SP 1001	Cetyl PEG/PPG-10/1 Dimethicone	Recommended for hair care formulations as a W/O emulsifier; improves aesthetics and reduces surface tension
Andisil® SP 4409	PEG-9 Dimethicone	Recommended for rinse off conditioners and styling aids. Best for W/O or W/Si formulations where D5 is not acceptable
Andisil® SP 4412	PEG-12 Dimethicone	Recommended for shampoos, conditioners and styling aids. Best for O/W emulsions.

Beauty.  
In the hands of the formulator



**Phenyl Modified Siloxane Fluids**

The high refractive index of phenyl siloxanes imparts excellent shine when included in hair care formulations. They also enhance the soft, supple feel of hair, improve the texture of damaged hair, and provide conditioning & heat resistance properties.

TRADE NAME	INCI NAME	APPLICATION
Andisil® PDM 1222* <i>RI 1.4360</i>	Diphenyl Dimethicone	Low viscosity phenyl fluid; recommended for styling aids
Andisil® PTM 20 <i>RI 1.4600</i>	Phenyltrimethicone	Recommended for conditioners & styling treatments. Most commonly utilized phenyl silicone in personal care applications.
Andisil® PDM 1443* <i>RI 1.5050</i>	Diphenyl Dimethicone	Recommended for serums & sprays; highest Refractive Index

*\*Refractive Index can be customized to meet your specific formulation requirements*

**Polyether Copolymers**

Emulsifying and co-solubilizing agents for siloxane & organic systems; offer varying hair conditioning properties and HLB values.

TRADE NAME	INCI NAME	APPLICATION
Andisil® SP 4410 <i>HLB: 4.5</i>	PEG-10 Dimethicone	Recommended for hair care formulations where foam booster and humectant are desired
Andisil® SP 4414B <i>HLB: 8.7</i>	Bis-PEG-12 Dimethicone	Recommended for hair care applications where softness, shine and conditioning properties are desired; surface tension reducer
Andisil® SP 4410B <i>HLB: 10.5</i>	Bis-PEG-10 Dimethicone	Recommended for hair care applications in need of soft feel and conditioning properties
Andisil® SP 4414 <i>HLB: 13.0</i>	PEG-12 Dimethicone	Recommended for hair care applications where surface tension reduction is required. Boosts foam to impart a silky, soft, supple texture and improves wet/dry combability without build up after repeated use

**Amodimethicone**

TRADE NAME	INCI NAME	APPLICATION
Andisil® AS 220P	Amodimethicone	Recommended for conditioning and styling applications where excellent conditioning and softness are desirable; improves wet and dry combing properties, reduces static and coats the hair shaft, smoothing damaged hair



Conditioning



Enhance Shine



Improve Texture



Foam Booster

**Amodimethicone Emulsions**

Amodimethicone emulsions in water that are easy to formulate into hair care applications. These emulsions offer exceptional conditioning properties and dilution stability. Paraben & Formaldehyde free

TRADE NAME	INCI NAME	APPLICATION
Andisil® EM 39	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride	Recommended for use in shampoos, conditioners & styling aids
Andisil® EM 49	Amodimethicone (and) Cetrimonium Chloride (and) Trideceth-12	Recommended for use in conditioning and styling treatments; does not weigh the hair down; good for dry and color-treated hair

**Specialty Emulsions**

Recommended for water-based hair care formulations for ease of use; Paraben & Formaldehyde free

TRADE NAME	INCI NAME	APPLICATION
Andisil® EM 350CG	Dimethicone (and) Trideceth-6 (and) Trideceth-12 (and) Isodeceth-32	Recommended for water soluble formulations
Andisil® EP 60,000CG	Dimethiconol (and) TEA-Dodecylbenzenesulfonate	Recommended for shampoos for dry / color-treated hair

**Gum Blends\***

Combining volatile siloxanes with high molecular weight gums provides excellent water resistance, ease of formulation, and anti-frizz properties in hair care. Recommended for anhydrous formulations

TRADE NAME	INCI NAME	APPLICATION
Andisil® SF 1505	Cyclopentasiloxane (and) Dimethiconol	Cyclic carrier used in applications where a "light" feel is desired; improves spreadability & wet combing capabilities
Andisil® SF 1605	Cyclohexasiloxane (and) Dimethiconol	Cyclic carrier for applications where D4 and D5 are not desired
Andisil® SF 2205	Dimethicone (and) Dimethiconol	Linear carrier; recommended for leave in treatments; most volatile of the linear carrier gum blends
Andisil® SF 2305	Dimethicone (and) Dimethiconol	Linear carrier; recommended for moisturizing treatments
Andisil® SF 2505	Dimethicone (and) Dimethiconol	Linear carrier; recommended for rinse off applications; least volatile of the linear carrier gum blends
Andisil® SF 3005	Dimethicone (and) C12-15 Alkyl Benzoate (and) Dimethiconol	Recommended for products needing longer play times and improved organic compatibility

*\*Percent gum and/or carrier fluid can be customized to meet your specific requirements*

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**Gum Blend Emulsions\***

Easily added to water-based hair care formulations for improved wet and dry combing and enhanced manageability

TRADE NAME	INCI NAME	APPLICATION
Andisil® EM 1505CG	Cyclopentasiloxane (and) Dimethiconol (and) Laureth-23 (and) Laureth-4	Most volatile of the cyclic-based carrier gum blend emulsions; best option for formulations requiring shortest play times.
Andisil® EM 1605CG	Cyclohexasiloxane (and) Dimethiconol (and) Laureth-23 (and) Laureth-4	Least volatile of the cyclic-based carrier gum blend emulsions; best option for formulations requiring longer play times.
Andisil® EM 2205CG	Dimethicone (and) Dimethiconol (and) Laureth-23 (and) Laureth-4	Most volatile of the linear carrier gum blend emulsions; best option for formulations requiring short play times when cyclic carriers are not desired
Andisil® EM 2305CG	Dimethicone (and) Dimethiconol (and) Laureth-23 (and) Laureth-4	Intermediate volatility of the linear carrier gum blend emulsions
Andisil® EM 2505CG	Dimethicone (and) Dimethiconol (and) Laureth-23 (and) Laureth-4	Least volatile of the linear carrier gum blend emulsions; best option for formulations requiring longer play times when cyclic carriers are not desired
Andisil® EM 3005CG	Dimethicone (and) C12-15 Alkyl Benzoate (and) Dimethiconol (and) Trideceth-6 (and) Trideceth-12 (and) Isodeceth-32	Recommended for water-based formulations needing longer play times and improved organic compatibility

\*Percent active silicone content can be customized

**Wax**

TRADE NAME	INCI NAME	APPLICATION
Andisil® SW 1894 Melting Point 36-42 °C	Bis-PEG-18 Methyl Ether Dimethyl Silane	Recommended for shampoo formulations to boost foam volume and density; water-dispersable dimethicone copolyol wax with low melting point



Anti-Frizz



Styling Aids



Wet/Dry Comb



Heat Resistant

**Dimethicones**

Linear Siloxanes in hair care provide water resistance and improved spreading of actives without weighing the hair down, even at high molecular weights due to low surface tension of silicones

TRADE NAME	INCI NAME	APPLICATION
Andisil® SF - Low Visc. (5 - 200 cSt)	Dimethicone	Recommended for hair care applications where a light silky feel is desired
Andisil® SF - Mid Visc. (350 - 5,000 cSt)	Dimethicone	Recommended to add silky smoothness to hair care formulations
Andisil® SF - High Visc. (10,000 - 600,000 cSt)	Dimethicone	Recommended for formulations where a higher viscosity final product is desired

**Cyclic Siloxanes**

TRADE NAME	INCI NAME	APPLICATION
Andisil® D5	Cyclopentasiloxane	Most volatile of the cyclic siloxanes
Andisil® D6	Cyclohexasiloxane	Least volatile of the cyclic siloxanes
Andisil® D56	Cyclopentasiloxane (and) Cyclohexasiloxane	Intermediate volatility

**Linear Siloxanes**

Linear volatile carriers used as delivery agents for hair care actives; good for wet combing

TRADE NAME	INCI NAME	APPLICATION
Andisil® SF 0.65	Disiloxane	Greatest volatility of linear and cyclic siloxanes
Andisil® SF 1	Trisiloxane	Recommended for fast volatility
Andisil® SF 1.5	Dimethicone	Recommended for fast volatility
Andisil® SF 2	Dimethicone	Recommended for medium volatility
Andisil® SF 3.5	Dimethicone	Partial Volatility; potential D5 replacement based on volatility profile

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formulator

# SelectionGuide

- Recommended
- ◆ Highly Recommended

	RESIN BLENDS				EMULSIFIERS			GUM BLENDS							GUM BLEND EMULSIONS							AMODIMETHICONE	AMODIMETHICONE EMULSIONS		PHENYL MODIFIED FLUIDS				POLYETHER COPOLYMERS				DIMETHICONES			WAX	SPECIALTY EMULSIONS				
	Andisil® MQ 50C	Andisil® MQ 2350	Andisil® MQ 3250	Andisil® MQ 3430	Andisil® SP 1001	Andisil® SP 4409	Andisil® SP 4412	Andisil® SF 1505	Andisil® SF 1605	Andisil® SF 2205	Andisil® SF 2305	Andisil® SF 2505	Andisil® SF 3005	Andisil® EM 1505 CG	Andisil® EM 1605 CG	Andisil® EM 2205 CG	Andisil® EM 2305 CG	Andisil® EM 2505 CG	Andisil® EM 3005 CG	Andisil® AS 220P	Andisil® EM 39	Andisil® EM 49	Andisil® PTM 20	Andisil® PTM 34	Andisil® PDM 1222	Andisil® PDM 1443	Andisil® SP 4410	Andisil® SP 4410B	Andisil® SP 4414	Andisil® SP 4414B	Andisil® SF Low	Andisil® SF Mid	Andisil® SF High	Andisil® SW 1894	Andisil® EM 350CG	Andisil® EP 60,000CG					
<b>APPLICATIONS</b>																																									
Shampoo					◆	◆															■																				
Conditioner (leave in)							■	◆	◆	◆	■	■	◆	◆	◆	■	■	■			◆			◆	◆	◆	◆					■	■	■					■	■	◆
Conditioner (rinse off)					■	■															◆																				
Styling Treatment	◆	◆	◆	◆	■	■		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆			◆	◆	◆	◆					◆	◆	◆	◆	◆	◆	◆	■		
<b>BENEFITS</b>																																									
Active Carrier																					■																				
Anti - Frizz	■	■	■	■				◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		■															◆	■				
Conditioning								■	■	■	■	■	■	■	■	■	■	■	■		◆			■	■	■	■	■	■										■	■	■
Cyclic Alternative		◆																																							
Dilution Stability					◆	◆																																	◆	◆	■
Ease Of Formulation								■	■	■	■	■	■	■	■	■	■	■	■		◆			◆	◆	◆	◆												◆	◆	◆
Emulsifier					◆	◆	◆																					■	■	■	■										
Formaldehyde Free					◆	◆	◆																																◆	◆	◆
Foam Booster																												■	■	◆	■										
For Dry/Damaged Hair								◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆			■	◆	■	■														◆
Heat Resistance																					◆																				
Improves Dry Combing								◆	◆	◆	■	■	◆	◆	◆	■	■	■	◆		◆				■																■
Improves Wet Combing							■	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		◆				■							■	■	■							■
Improves Texture		■	■	■				◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆					◆	◆	◆	◆												■	■	■
Light Residue/Low Build Up								◆	◆	◆	■	■	◆	◆	◆	■	■	■	◆					◆	◆	◆	◆														■
Paraben Free																																							◆	◆	◆
Shine Enhancer			◆	◆																				◆	◆	◆	◆														
Soft / Supple Feel		■	■	■				◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆						■																■
Surface Tension Reducer																												◆	◆	◆	◆										
Water Soluble																																							◆	◆	◆

# SelectionGuide

- Recommended
- ◆ Highly Recommended

	CYCLIC SILOXANES			LINEAR SILOXANES			
	Andisil® D5	Andisil® D6	Andisil® D56	Andisil® SF 1	Andisil® SF 1.5	Andisil® SF 2	Andisil® SF 3.5
	Cyclopentasiloxane	Cyclohexasiloxane	Cyclopentasiloxane (and) Cyclohexasiloxane	Trisiloxane	Dimethicone	Dimethicone	Dimethicone
<b>APPLICATIONS</b>							
Shampoo				◆	◆	◆	◆
Conditioner (leave in)	◆	◆	◆	◆	◆	◆	◆
Conditioner (rinse off)				◆	◆	◆	◆
Styling Treatment	◆	◆	◆	◆	◆	◆	◆
<b>BENEFITS</b>							
Active Carrier	◆	◆	◆	◆	◆	◆	◆
Anti - Frizz							
Conditioning							
Cyclic Alternative						◆	◆
Dilution Stability							
Ease Of Formulation							
Emulsifier							
Formaldehyde Free							
Foam Booster							
For Dry/Damaged Hair							
Heat Resistance							
Improves Dry Combing							
Improves Wet Combing	■	■	■	■	■	■	■
Improves Texture							
Light Residue/Low Build Up							
Paraben Free							
Shine Enhancer							
Soft / Supple Feel							
Surface Tension Reducer							
Water Soluble							

## WHO WE ARE

Under our brand, Andisil®, AB Specialty Silicones offers the personal care marketplace an extensive line of silicone based ingredients as well as the ability to custom formulate raw materials *and* blends to specifically suit your needs. Our technically trained, innovative team and global resources enable us to rapidly and efficiently deliver the latest in technology and product development. AB Specialty Silicones offers the highest degree of personal service and flexibility to meet each customer's requirements.

Our Sales, Distribution, Manufacturing and Research & Development services are ISO 9001 certified.

*Beauty.*  
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### HEADQUARTERS

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