

Raw Materials  
For Custom  
Solutions.



# Selection Guide



	Cyclics	Andisil® D5	Andisil® D6	Andisil® D56	Andisil® DMC	Volatlie Fluids	Andisil® SF 0.65	Andisil® SF 1	Andisil® SF 1.5	Andisil® SF 2	Andisil® SF 3.5	Dimethicone	LOW (5 - 200 cSt)	MID (350 - 5000 cSt)	HIGH (10,000 - 100,000 cSt)	Gum Blends	Andisil® SF 1505
HAIR CARE	Shampoo	1	1	2	2				2	2	2		1	2	3		2
	Conditioner	1	1	2	2				2	2	2		2	2	3		2
	Styling Product													1	2		1
ANTIPERSPIRANT / DEODORANT	Roll on							1	1	2	2		2	2	1		2
	Gel	1	1	1	1			3	3	3	3		3	3	3		2
	Stick	3	3	3	3			3	3	3	3		3	3	3		2
SKIN CARE / SUN CARE	Spray	3	3	3	3		3	3	3	3	3		3	3	3		2
	Skin Lotion	3	3	3	3		2	2	2	3	3		2	2	3		2
	Face Lotion								2	3	3		2	2	3		2
	Shaving Products	2	2	2	2				2	3	3		2	2	3		2
FOAMING CLEANSERS	Sun Care	2	2	2	2		2	2	2	3	3		2	2	3		2
	Body Wash								1	1	1		1	2	3		2
COLOR COSMETICS	Foaming Cleanser										1		1	1	1		2
	Foundation	3	2	2	2			1	2	3	3		2	2	3		2
	Mascara	2	3	3	2					2	2		2	2	2		2
	Eye Shadow	2	3	3	2					2	2		2	2	2		2
	Lipstick	3	3	3	2			1	2	3	3		3	2	2		2
	Powder	1	1	1					1	2	3		2	2	3		2
VALUE ADDED BENEFIT...	Anti Frizz										L		L	L	M		H
	Conditioner		L	L									M	M	H		M
	Detangler		H	H									H	M	L		H
	Emulsifier																
	Foam Modifier									L			M				
	Long Wear												L	M	M		M
	Lubrication		H	H	H		L	M	H	H			M	H	H		H
	Oil Repellency																
	Organic Compatibility																
	Protection & Restoration												M	H	H		M
	Shine																
	Slip		L	L	L	L		L	L	L	L	L	H	H	M		M
	Smoothness		L	L	L	L		L	L	L	L	L	M	H	M		M
	Softness												M	M	L		L
	Spreadability		M	M	M	M		M	M	M	M	M	M	M	L		M
	Surface Tension Modifier		M	M	M	M		M	M	M	M	M	M	M	M		L
	Suitable for Clear Formulations		H	H	H			H	H	H	H	H	M	M	M		M
	Tack Reduction		L	L	L	L		L	L	L	L	L	H	H	H		H
	Thickening Agent														M		L
	Transfer Resistance												M	M	H		M
	UV Protection												L	M	H		H
	Wash off Resistance												L	M	M		M
	Water Repellency												H	H	H		M
	Wetting Agent		L	L	L	L		L	L	L	L	L	M	M	L		L



# Andisil® Personal Care

## CYCLICS

Provide transient skin conditioning and eventually dissipate leaving no residue. They are known for evaporation without cooling or irritation and are excellent carriers.

Product	INCI Name
Andisil® D4	Cyclotetrasiloxane
Andisil® D5	Cyclopentasiloxane
Andisil® D6	Cyclohexasiloxane
Andisil® D45	Cyclotetrasiloxane (and) Cyclopentasiloxane
Andisil® D56	Cyclopentasiloxane (and) Cyclohexasiloxane
Andisil® DMC	Cyclotetrasiloxane (and) Cyclopentasiloxane

## VOLATILE FLUIDS

Offer comparable properties to cyclic siloxanes. As the viscosity of the fluid increases the volatility decreases.

Product	INCI Name
Andisil® SF 0.65	Disiloxane
Andisil® SF 1	Trisiloxane
Andisil® SF 1.5	Dimethicone
Andisil® SF 2	Dimethicone
Andisil® SF 3.5	Dimethicone

## POLYETHER COPOLYMERS

Used as emulsifying and co-solubilizing agents of siloxane and organic systems. They also offer varying hair conditioning properties; from light to heavy.

Product	INCI Name
Andisil® SP 1818	PEG/PPG 18/18 Dimethicone
Andisil® SP 4414	PEG 12 Dimethicone
Andisil® SP 4410	PEG 10 Dimethicone
Andisil® SP 4410B	Bis PEG 10 Dimethicone

Product	INCI Name
Andisil® SW 1894	Bis-PEG-18 Methyl Ether Dimethyl Silane*

## DIMETHICONE

Dimethicones are non-reactive polydimethyl siloxanes. They are known for their increased water resistance and for enhancing softness of skin.

Product	INCI Name
Low (5 - 200 cSt)	Dimethicone
Mid (350 - 5,000 cSt)	Dimethicone
High (10,000 - 100,000 cSt)	Dimethicone

## RESIN BLENDS

A convenient delivery system for trimethylsiloxysilicate which provides strong water resistance and film forming characteristics.

Product	INCI Name
Andisil® MQ 50C	Cyclopentasiloxane (and) Trimethylsiloxysilicate



# Product Properties

Viscosity, cSt	D4, %	D5, %	D6, %
2	99.0	--	--
4	--	96.0	--
6	--	--	94.0
4	70.0	30.0	--
5	--	65.0	35.0
--	85.0	15.0	--

Viscosity, cSt	Purity, %
0.65	99
1	99
1.5	95
2	99
3.5	--

Viscosity, cP	HLB	Cloud Point, 1% Aqueous
2,500	7	44 °C
400	13	95 °C
500	4.5	--
300	10.5	--

Melting Point
39 °C

Refractive Index	Volatiles
1.3970 - 1.4030	0.5% - 4.5%
1.4035	0.5% - 1.5%
1.4040	0.5% - 2.0%

Viscosity, cSt	Resin Content, %	Refractive Index
300	50	1.4050

\* Proposed INCI name, approval pending



# Andisil® Personal Care

## GUM BLENDS

Combining volatile siloxanes with high molecular weight gums provides excellent water resistance, enhanced adhesion of actives to skin, a unique skin feel, and anti-frizz properties in hair care.

Product	INCI Name
Andisil® SF 1405	Cyclotetrasiloxane (and) Dimethiconol
Andisil® SF 1505	Cyclopentasiloxane (and) Dimethiconol
Andisil® SF 1605	Cyclohexasiloxane (and) Dimethiconol
Andisil® SF 2205	Dimethicone (and) Dimethiconol
Andisil® SF 2305	Dimethicone (and) Dimethiconol
Andisil® SF 2505	Dimethicone (and) Dimethiconol
Andisil® SF 3005	Dimethicone (and) C12-15 Alkyl Benzoate (and) Dimethiconol

## PHENYL MODIFIED FLUIDS

Phenyl fluids are known for their high refractive index which improves gloss and can be used in systems that require siloxane-organic solubilizing agents.

Product	INCI Name
Andisil® PTM 20	Phenyltrimethicone
Andisil® PTM 34	Phenyltrimethicone (and) Dimethiconol
Andisil® PDM 1222	Diphenyl Dimethicone*
Andisil® PDM 1443	Diphenyl Dimethicone*
Andisil® PXL 2450	Hydrogen Diphenyl Dimethicone*
Andisil® PXL 2460	Hydrogen Diphenyl Dimethicone*

## SPECIALTY FLUIDS

A collection of hydride and fluoro substituted silicones particularly useful for pigment treatments for imparting hydrophobicity and lipophobicity (fluoro).

Product	INCI Name
Andisil® FS 105	Trifluoropropyl Dimethicone*
Andisil® FSXL 4505	Hydrogen Trifluoropropyl Dimethicone*
Andisil® XL 11	Hydrogen Dimethicone*
Andisil® MH 30	Methicone*

## SPECIALTY EMULSIONS

Offer easy formulation and have reliable dilution stability. Amodimethicone Emulsions provide further enhancement of conditioning properties.

Product	INCI Name
Andisil® EM 39	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride
Andisil® EM 49	Amodimethicone (and) Cetrimonium Chloride (and) Trideceth-12
Andisil® EM 350CG	Dimethicone (and) Trideceth-6 (and) Trideceth-12 (and) Isodeceth-32
Andisil® EP 60,000 PC	Dimethiconol (and) TEA-dodecylbenzenesulfonate*



# Product Properties

Viscosity, cP	Gum Content %
6,000	15
6,000	15
10,000	15
3,000	15
3,000	15
3,000	15
3,000	15

Viscosity, cSt	Refractive Index	Gum Content %
20	1.4600	0
6,000	1.4540	12
200 - 250	1.4360	--
400	1.5050	--
350 - 450	1.4630	--
300	1.5080	--

Viscosity, cSt	Hydride (mmole/gram)	Refractive Index	Fluoro Content
100	--	1.4000	5
450	0.48	1.4010	5
30 - 45	4.45	1.4020	--
30	15.6	1.3960	--

Amine Value	Silicone Content, %	pH
0.11	35	7.6
0.083	35	7.6
--	60	7.0
--	40	7.0

\* Proposed INCI name, approval pending





Custom Raw Materials.

Custom Formulations.

Product Quality.

Customer Service.

Technical Expertise.

## ABOUT US

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.

### HEADQUARTERS

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*Enthusiasm & Innovation Create Success.*