



Specialty Silicone **Raw Materials**

AB SPECIALTY SILICONES • RAW MATERIAL SOLUTIONS
WAUKEGAN, IL • WWW.ANDISIL.COM



ABOUT AB

AB SPECIALTY SILICONES is a US Manufacturer and Worldwide Distributor of specialty silicone chemicals. With customer focus at the forefront, our goal is to be the one source for all of your silicone raw material needs – providing the highest quality materials, service and technical expertise available.

Our core brand is Andisil®, representing high quality materials and encompassing a broad product catalog serving many industries: Personal Care, Roof Coatings, Chemical Manufacturing, Dental & Medical, Mold Making, Electronic Encapsulation, Adhesives & Sealants, Coatings, Gypsum, Mineral & Fiber Treatment, Pulp Manufacturing, Pressroom et al.

At the heart of our company is our vision - Enthusiasm & Innovation Create Success. Our team works hard to let our customers know how important they are. Present us with your needs, and we will figure out the possibilities.

- » **Product Quality.**
- » **Customer Service.**
- » **Technical Expertise.**



US Manufacturer

Headquartered in Waukegan, Illinois



IL-Based Warehousing

- Over 200,000 Sq Ft of warehouse space
- Strategically located resulting in minimal lead times

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Antifoams & Defoamers

Silicone antifoam and defoamer solutions provide various foam control and prevention options for industrial applications where aggressive foaming occurs. Our silicone antifoams and defoamers offer:

- Knockdown resistance
- Improved persistence and drainage
- Cost efficient solutions
- Ease of use
- Food & Kosher grades available

Antifoam Emulsions Designed as highly efficient, ready-to-use and easily dispersible foam control options for aqueous systems including food & kosher grade applications (FGK).

PRODUCT	% ACTIVE	VISCOSITY	INDUSTRIES	BENEFITS
Andifoam DF 210	10.0	2,000 cP	• General manufacturing	• Easy to use • Effective in hot and cold systems
Andifoam DF 220	20.0	2,000 cP		
Andifoam DF 230	30.0	3,000 cP		
Andifoam DF 210FGK*	10.0	1,900 cP	• Secondary food contact	• Compliant FDA Regulations 21 CFR 173.340, • 21 CFR 176.170 and 21 CFR 176.180 • Kosher Grade
Andifoam DF 220FGK*	20.0	1,500 cP		
Andifoam DF 230FGK*	30.0	2,000 cP		

Antifoam Compounds 100% Active silica-filled polydimethylsiloxane antifoam compounds formulated for use in applications where aggressive foaming occurs.

PRODUCT	% ACTIVE	VISCOSITY	INDUSTRIES	BENEFITS
Andifoam DFA 100M FGK*	100.0	2,500 cP	<ul style="list-style-type: none"> • Pesticide production • Syrup processes • Edible oil manufacturing 	<ul style="list-style-type: none"> • Compliant FDA Regulations 21 CFR 173.340, • 21 CFR 176.170 and 21 CFR 176.180 • Kosher Grade

* Food & Kosher Grade



Catalysts

Platinum Catalyst

Used to cure two part RTV formulations. These catalysts are available with varying platinum contents and diluents. Customized platinum content and vinyl polymer viscosity are also available.

TYPE	% PT	DILUENT
Karstedt	20.00%	VTS
Karstedt	1 - 3.25%	200, 500, 1000 cSt vinyl polymer
Ashby's Catalyst	2%	Vinyl Cyclic

Tin Catalyst

High activity liquid catalysts used in the condensation cure of silicones, and the synthesis of polyurethanes & esters.

NAME	DESCRIPTION	CAS#
Andisil® TL 10	Dibutyltin dilaurate	77-58-7
Andisil® TL 28	Dimethyltin dineodecanoate	68928-76-7

Specialty Catalyst

Specially formulated to cure formulations with a high phenyl content or refractive index.

NAME	% PT	DESCRIPTION
Andisil® 782 Catalyst	2.25	For use with high phenyl content (> 35% by wt) Si polymers
Andisil® 785 Catalyst	0.5	For use in high RI formulations

Markets & Applications

- Dental & Medical
- Electronic Encapsulation
- Mold Making
- Roof Coatings
- Rubber Manufacturing
- One Part RTVs
- Two Part RTVs



Crosslinkers

Pendant Crosslinkers Pendant crosslinkers have random pendant silicon-hydride functionality and are trimethylsiloxy-terminated.

NAME	DESCRIPTION	SiH CONTENT	VISCOSITY
Andisil® XL 1B	SiH Functional	0.95 mmole/gm	100 cSt
Andisil® XL 10	SiH Functional	7.55 mmole/gm	45 cSt
Andisil® XL 11	SiH Functional	4.35 mmole/gm	45 cSt
Andisil® XL 12	SiH Functional	1.10 mmole/gm	500 cSt
Andisil® XL 13	SiH Functional	3.80 mmole/gm	100 cSt
Andisil® XL 15	SiH Functional	3.15 mmole/gm	40 cSt
Andisil® XL 17	SiH Functional	1.95 mmole/gm	50 cSt

Hybrid Crosslinkers Hybrid Crosslinkers have both pendant and terminal silicon-hydride functionality.

NAME	DESCRIPTION	SiH CONTENT	VISCOSITY
Andisil® XL 1340*	SiH Functional	3.0 mmole/gm	50 cSt
Andisil® XL 1341*	SiH Functional	4.2 mmole/gm	40 cSt
Andisil® XL 1342*	SiH Functional	8.6 mmole/gm	50 cSt

* Random Pendant & Terminal Functional

Markets & Applications

- Adhesives & Sealants
- Dental & Medical
- Electronic Encapsulation
- Mold Making
- Roof Coatings
- Rubber Manufacturing
- One Part RTVs
- Two Part RTVs



Crosslinkers

Specialty Crosslinkers Specialty Crosslinkers are used with high phenyl containing polymers (>13 mole % phenyl).

NAME	DESCRIPTION	SiH CONTENT	VISCOSITY
Andisil® XL 2450	SiH Functional	3.00 mmoles/gm	400 cSt
Andisil® XL 2460	SiH Functional	3.85 mmoles/gm	350 cSt
Andisil® XL 245 PT	SiH Functional	8.50 mmoles/gm	2.5 cSt

Chain Extenders Chain Extenders have terminal silicon-hydride functionality.

NAME	DESCRIPTION	SiH CONTENT	VISCOSITY
Andisil® CE-4	Terminal SiH Functional	2.90 mmole/gm	4 cSt
Andisil® CE-13	Terminal SiH Functional	1.60 mmole/gm	14 cSt
Andisil® CE-500	Terminal SiH Functional	0.16 mmole/gm	500 cSt

Oxime Crosslinkers Oxime crosslinkers are liquid raw materials for neutral condensation curing silicone sealants.

NAME	DESCRIPTION	CAS #
Andisil® MOS	Methyl tris(MEKO)silane	22984-54-9
Andisil® POS	Phenyl tris(MEKO)silane	34036-80-1
Andisil® VOS	Vinyl tris(MEKO)silane	2224-33-1
Andisil® TT 5050	Tetrakis(MEKO)silane in Toluene	--
Andisil® MT 9010	90% MOS/10% TOS	--
Andisil® VT 6535	65% VOS/35% TOS	--



Cyclic Siloxanes & Volatile Fluids

Cyclics & Volatile Fluids are nonreactive silicone fluids used in many different industrial formulations for their:

- Low surface tension – excellent spreadability and defoaming properties
- Varying evaporation rates
- As carriers for other raw materials including other silicones and oils
- Solubility with a wide array of oils, waxes, and other raw materials
- Exempt from VOC regulations, these products are useful for reducing the overall VOC concentration of a formulation when replacing / diluting VOC solvents

Markets & Applications

- Adhesives & Sealants
- Car Care
- Personal Care
- Roof Coatings
- Rubber Manufacturing

Cyclic Siloxanes

NAME	INCI NAME	VISCOSITY	D4%	D5%	D6%
Andisil® D4	Cyclotetrasiloxane	2 cSt	99	--	--
Andisil® D5	Cyclopentasiloxane	4 cSt	--	96	--
Andisil® D6	Cyclohexasiloxane	6 cSt	--	--	94
Andisil® D45	Cyclotetrasiloxane (and) Cyclopentasiloxane	4 cSt	70	30	--
Andisil® D56	Cyclopentasiloxane (and) Cyclohexasiloxane	5 cSt	--	65	35

Volatile Fluids

NAME	INCI NAME	VISCOSITY
Andisil® SF 0.65	Disiloxane	0.65 cSt
Andisil® SF 1	Trisiloxane	1 cSt
Andisil® SF 1.5	Dimethicone	1.5 cSt
Andisil® SF 2	Dimethicone	2 cSt
Andisil® SF 3.5	Dimethicone	3.5 cSt



Emulsions

Silicone emulsions have various uses over a myriad of industries. They are easy to use and efficient carriers of desired silicone properties throughout formulations with high water content. Some of the many benefits of silicone emulsions are:

- Lubricity
- Shine/gloss
- Low surface tension
- Ease of formulation

Markets & Applications

- Food & Beverage Manufacturing
- Mineral & Fiber Treatment
- Personal Care
- Pressroom

Silicone Emulsions

NAME	% ACTIVE	VISCOSITY
Andisil® EM 100C	50	Emulsion of 100 cSt fluid
Andisil® EM 350 *†	35	Emulsion of 350 cSt fluid
Andisil® EM 350C *	60	Emulsion of 350 cSt fluid
Andisil® EM 1,000	35	Emulsion of 1,000 cSt fluid
Andisil® EM 1,000C	60	Emulsion of 1,000 cSt fluid
Andisil® EM 10,000	35	Emulsion of 10,000 cSt fluid
Andisil® EM 10,000C	50	Emulsion of 10,000 cSt fluid
Andisil® EM 10,000XC †	60	Emulsion of 10,000 cSt fluid
Andisil® EM 12,500	35	Emulsion of 12,500 cSt fluid
Andisil® EM 12,500C	50	Emulsion of 12,500 cSt fluid
Andisil® EM 60,000C	50	Emulsion of 60,000 cSt fluid

* Food & Kosher Grade † Food Packaging Grade available



Emulsions

Silicone emulsions have various uses over a myriad of industries. They are easy to use and efficient carriers of desired silicone properties throughout formulations with high water content. Some of the many benefits of silicone emulsions are:

- Lubricity
- Shine/gloss
- Release agent
- Low surface tension
- Ease of formulation

Markets & Applications

- Mineral & Fiber Treatment
- Personal Care
- Pressroom

Specialty Emulsions

Silicone Emulsions are non-flammable, non-toxic, nonionic emulsions of various viscosities of polydimethylsiloxane fluids.

NAME	DESCRIPTION
AMODIMETHICONE EMULSIONS	
Andisil® EM 39	INCI: Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride
Andisil® EM 49	INCI: Amodimethicone (and) Cetrimonium Chloride (and) Trideceth-12
CONSTRUCTION EMULSIONS	
Andisil® EM 7060	Concentrated emulsion of silanol functional fluid used as a release agent for plastic, asphalt, metals and shell core materials.

Hybrid Emulsions

Hybrid emulsions are silicone emulsions with anti-stat agents and conductivity additives – also called web conditioners – for use on high speed web printing presses. They are cost effective alternatives to conventional silicone emulsions.

NAME	DESCRIPTION
Andisil® WC 26	An optimal performing hybrid silicone solution, equivalent to a 60% pure silicone emulsion, that contains anti-stat agents and conductivity additives for use on high speed web printing presses.
Andisil® WC 18	A high performing hybrid silicone solution, equivalent to a 35% pure silicone emulsion, contains anti-stat agents and conductivity additives for use on web offset presses.
Andisil® WC 40	A high performing hybrid silicone solution that has 40% silicone content for use on web offset presses. Available with anti-stat agents and/or conductivity additives.
Andisil® EM 6008	A high performing hybrid silicone solution that contains extra anti-stat agents and conductivity additives for use on web offset presses.



Fluoros

Fluorosilicones offer a variety of industries many benefits including:

- Good high and low temperature stability
- Fuel, oil, and solvent resistant
- Electrical insulation
- Resistance to ultraviolet (UV) light
- Excellent durability and lubricity

Markets & Applications

- Coatings
- Lubricants & Greases
- Personal Care
- Rubber Manufacturing

Fluoro Silicone

NAME	DESCRIPTION	VISCOSITY	HYDRIDE %	REFRACTIVE INDEX
Andisil® FS 105	Trifluoropropyl Dimethicone	100 cSt	--	1.4
Andisil® FS 1,000	100% Active Fluorosilicone Oil	1,000 cSt	--	1.381
Andisil® FSXL 4505	Hydrogen Trifluoropropyl Dimethicone	450 cSt	0.48	1.401

Methyl Hydrogen Fluid

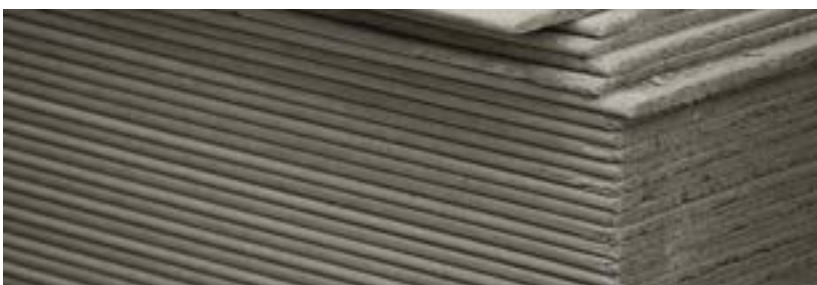
Methyl hydrogen fluids are methyl hydrogen polysiloxanes end-capped with trimethyl siloxy groups. Methyl hydrogen fluids are primarily used to treat powders to keep them dry, as an anti-caking material and are also highly water repellent.

Markets & Applications

- Gypsum
- Mineral & Fiber Treatment

Methyl Hydrogen Fluid

NAME	DESCRIPTION
Andisil® MH 20	Methyl Hydrogen Polysiloxane
Andisil® MH 30	Methyl Hydrogen Polysiloxane



Methyl Phenyl Silicones

Methyl Phenyl silicones are specialty products that have varying refractive index values that increase with phenyl concentration. The presence of phenyl offers many enhancements to formulations:

- Oxidation resistance
- Thermal stability
- Shear resistance
- Optical clarity
- Radiation resistance
- Extreme temperature resistance

Markets & Applications

- Electronic Encapsulation
- High & Low Temperature Sealants
- Personal Care
- Refractive Index Matching

Methyl Phenyl Fluids

Trimethylsiloxyterminated dimethyl diphenyl polysiloxanes that are available with various phenyl contents and viscosities. These fluids are most often used in high and low temperature applications to enhance temperature stability. Low temperature flexibility can be improved with phenyl contents of 3-8 mole %. Higher phenyl contents improve high temperature thermal stability.

NAME	PHENYL CONTENT	REFRACTIVE INDEX	VISCOSITY
Andisil® SF 1208	4.2 Mole%	1.4215	80 cSt
Andisil® SF 1221	4.2 Mole%	1.4230	160 cSt
Andisil® SF 1222 CV	7.6 Mole%	1.4360	225 cSt
Andisil® SF 1223	11.0 Mole%	1.4560	225 cSt
Andisil® SF 1230	13.0 Mole%	1.4630	13,000 cSt
Andisil® SF 1243 CV	23.0 Mole%	1.4900	175 cSt
Andisil® SF 1443 CV	23.0 Mole%	1.4950	380 cSt

† Low volatility



Methyl Phenyl Polymers

Vinyl-terminated dimethyl diphenyl polysiloxanes that are available with various phenyl contents and viscosities. Phenyl contents of 3-8 mole % optimize low temperature characteristics. The higher phenyl content materials can be used for index matching which improves clarity. All of these polymers are used in addition curing formulations in which a platinum catalyst and silicon-hydride crosslinker are present.

NAME	PHENYL CONTENT	REFRACTIVE INDEX	VISCOSITY
Andisil® SF 1421	3.0 Mole%	1.4150	1,100 cSt
Andisil® SF 2421 CV **	3.0 Mole%	1.4185	1,100 cSt
Andisil® SF 1721	7.0 Mole%	1.4240	7,000 cSt
Andisil® SF 2430 CV **	13.0 Mole%	1.4635	1,550 cSt
Andisil® SF 9530 CV **	13.0 Mole%	1.4635	10,000 cSt
Andisil® SF 2450 CV **	29.0 Mole%	1.5165	625 cSt
Andisil® SF 6550 CV **	29.0 Mole%	1.5165	7,000 cSt
Andisil® SF 2465 CV **	42.0 Mole%	1.5400	2,500 cSt
Andisil® SF 4565 CV **	42.0 Mole%	1.5400	4,500 cSt

** Controlled Volatility

Methyl Phenyl Resins

Additives for the improvement of mechanical properties in high phenyl containing systems. The mechanical properties of the unfilled RTV are rather poor, therefore the properties are improved with the addition of appropriate fillers i.e. carbon black, fumed or precipitated silica and other fillers well known to formulators with expertise in compounding silicones.

NAME	DESCRIPTION	REFRACTIVE INDEX
Andisil® MVT 152	Additive for high phenyl containing systems	1.5290
Andisil® MVT 154	Additive for high phenyl containing systems	1.5470



Reactive Silanol Polymers

Reactive silicone polymers are a series of silanol functional fluids with various viscosities and silanol contents. Reactive silicone polymers are useful in the treatment of fillers and as Anti-Structuring additives in high consistency silicone rubber and silicone Room Temperature Vulcanizing (RTV) formulations. The low viscosity grades can be used as reactive diluents for high viscosity polymers to adjust the overall viscosity of the formulation. Andisil® OH reactive silicone polymers are pure and do not contain any plasticizers or additives.

Markets & Applications

- Adhesives & Sealants
- One Part RTVs
- Roof Coatings
- Rubber Manufacturing

Silanol Fluids

NAME	DESCRIPTION	VISCOSITY	CAS#
Andisil® OH 40	Low viscosity 3.5% silanol fluid	40 cSt	70131-67-8
Andisil® OH 70	Low viscosity 1.25% silanol fluid	70 cSt	70131-67-8
Andisil® OH 750	Silanol terminated	750 cP	70131-67-8
Andisil® OH 1,000	Silanol terminated	1,000 cP	70131-67-8
Andisil® OH 2,000	Silanol terminated	2,000 cP	70131-67-8
Andisil® OH 3,500	Silanol terminated	3,500 cP	70131-67-8
Andisil® OH 4,000	Silanol terminated	4,000 cP	70131-67-8
Andisil® OH 6,000	Silanol terminated	6,000 cP	70131-67-8
Andisil® OH 14,000	Silanol terminated	14,000 cP	70131-67-8
Andisil® OH 20,000	Silanol terminated	20,000 cP	70131-67-8
Andisil® OH 50,000	Silanol terminated	50,000 cP	70131-67-8
Andisil® OH 80,000	Silanol terminated	80,000 cP	70131-67-8
Andisil® OH 300,000	Silanol terminated	300,000 cP	70131-67-8
Andisil® MOH 100	Monofunctional Silanol Polymer	100 cSt	
Andisil® MOH 1,000	Monofunctional Silanol Polymer	1,000 cSt	
Andisil® MOH 10,000	Monofunctional Silanol Polymer	10,000 cSt	
Andisil® MOH 50,000	Monofunctional Silanol Polymer	50,000 cP	



Silanes

Silanes are used in a variety of industrial applications as:

- Oxidation resistance
- Adhesion promoters
- Coupling agents
- Crosslinkers
- Moisture scavengers
- Resin additives
- Surface modifiers

Markets & Applications

- Adhesives & Sealants
- Chemical Manufacturing
- Coatings
- Mineral & Fiber Treatment
- Mold Making
- Roof Coatings
- Rubber Manufacturing

Acetoxy Silanes

NAME	CHEMICAL NAME	CAS #
Andisil® MTAS Silane	Methyltriacetoxysilane	4253-34-3
Andisil® ETAS Silane	Ethyltriacetoxysilane	17689-77-9
Andisil® MTAS/ETAS Silane	Methyltriacetoxysilane /Ethyltriacetoxysilane blend	--
Andisil® MTAS/ETAS 30/70	30% Methyltriacetoxysilane, 70% Ethyltriacetoxysilane	--
Andisil® 4153 Silane	Di-t-butoxydiacetoxysilane	13170-23-5

Alkoxy Silanes

NAME	CHEMICAL NAME	CAS #
Andisil® 137 Silane	Octyltriethoxysilane	2943-75-1
Andisil® 155 Silane	Vinyltriisopropoxysilane	18023-33-1
Andisil® 162 Silane	Methyltriethoxysilane	2031-67-6
Andisil® 163 Silane	Methyltrimethoxysilane	1185-55-3
Andisil® 1150 Silane	Bis-(triethoxysilyl)ethane	16068-37-4
Andisil® 6665 Silane	Octyltrimethoxysilane	3069-40-7
Andisil® TEOS Silane	Tetraethoxysilane	78-10-4
Andisil® TEOS-40 Silane	Tetraethoxysilane, Si-40	78-10-4



Silanes

Silanes are used in a variety of industrial applications as:

- Oxidation resistance
- Adhesion promoters
- Coupling agents
- Crosslinkers
- Moisture scavengers
- Resin additives
- Surface modifiers

Markets & Applications

- Adhesives & Sealants
- Chemical Manufacturing
- Coatings
- Mineral & Fiber Treatment
- Mold Making
- Roof Coatings
- Rubber Manufacturing

Amino Silanes

NAME	CHEMICAL NAME	CAS #
Andisil® 1100 Silane	Aminopropyltriethoxysilane	919-30-2
Andisil® 1110 Silane	Aminopropyltrimethoxysilane	13822-56-5
Andisil® 1120 Silane	Aminoethylaminopropyltrimethoxysilane (technical grade)	1760-24-3
Andisil® 1122 Silane	Aminoethylaminopropyltrimethoxysilane	1760-24-3
Andisil® 1130 Silane	Triamino-functional propyltrimethoxysilane	35141-30-1
Andisil® 1170 Silane	Bis(trimethoxysilylpropyl)amine	82985-35-1
Andisil® 2100 Silane	Aminopropylmethyldiethoxysilane	3179-76-8
Andisil® 2120 Silane	N-(2-Aminoethyl)-3-aminopropylmethyldimethoxysilane	3069-29-2
Andisil® 6021 Silane	Aminoethylaminopropyltriethoxysilane	5089-72-5

Chloro Silanes

NAME	CHEMICAL NAME	CAS #
Andisil® 6376 Silane	Chloropropyltriethoxysilane	5089-70-3
Andisil® 143 Silane	Chloropropyltrimethoxysilane	919-30-2



Epoxy Silanes

NAME	CHEMICAL NAME	CAS #
Andisil® 186 Silane	Epoxycyclohexylethyltrimethoxysilane	3388-04-3
Andisil® 187 Silane	Glycidoxypropyltrimethoxysilane	2530-83-8
Andisil® 6041 Silane	Glycidoxypropyltriethoxysilane	2602-34-8
Andisil® 78 Silane	Glycidoxypropylmethyldiethoxysilane	2897-60-1
Andisil® 1770 Silane	Epoxycyclohexylethyltriethoxysilane	10217-34-2

Methacryloxy Silanes

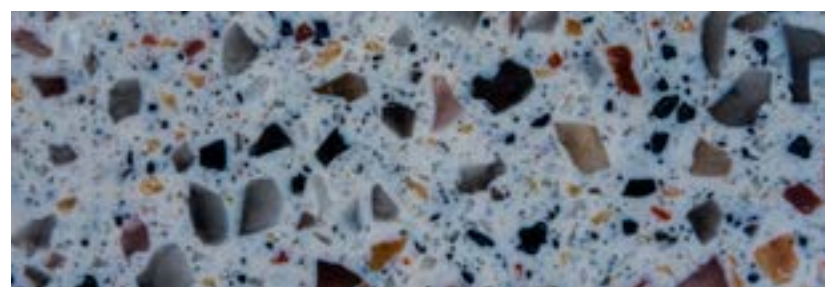
NAME	CHEMICAL NAME	CAS #
Andisil® 174 Silane	Methacryloxypropyltrimethoxysilane	2530-85-0
Andisil® 502 Silane	Methacryloxypropylmethyldimethoxysilane	14513-34-9

Phenyl Silanes

NAME	CHEMICAL NAME	CAS #
Andisil® 6123 Silane	Phenyltriethoxysilane	780-69-8
Andisil® 6124 Silane	Phenyltrimethoxysilane	2996-92-1

Sulfur Silanes

NAME	CHEMICAL NAME	CAS #
Andisil® 189 Silane	Mercaptopropyltrimethoxysilane	4420-74-0
Andisil® 1891 Silane	Mercaptopropyltriethoxysilane	14814-09-6
Andisil® 264 Silane	Thiocyanatopropyltriethoxysilane	34708-08-2
Andisil® 1289 Silane	Bis[3-(triethoxysilyl)propyl]tetrasulfide	40372-72-3
Andisil® 6920 Silane	Bis-(triethoxysilylpropyl)disulfide	56706-10-6



Silanes

Silanes are used in a variety of industrial applications as:

- Oxidation resistance
- Adhesion promoters
- Coupling agents
- Crosslinkers
- Moisture scavengers
- Resin additives
- Surface modifiers

Markets & Applications

- Adhesives & Sealants
- Chemical Manufacturing
- Coatings
- Mineral & Fiber Treatment
- Mold Making
- Roof Coatings
- Rubber Manufacturing

Ureido Silanes

NAME	CHEMICAL NAME	CAS #
Andisil® 1524 Silane	Ureidopropyltrimethoxysilane	23843-64-3
Andisil® 1160 Silane 50% Methanol	Ureidopropyltriethoxysilane	23779-32-0

Vinyl Silanes

NAME	CHEMICAL NAME	CAS #
Andisil® 151 Silane	Vinyltriethoxysilane	78-08-0
Andisil® 158 Silane	Vinyltris(isopropenoxy)silane	2530-83-8
Andisil® 171 Silane	Vinyltrimethoxysilane	2602-34-8
Andisil® 172 Silane	Vinyltris(2-methoxyethoxy)silane	2897-60-1



Silica

Medium surface fumed silica which imparts a significant increase in viscosity in liquid systems, free flow of powders and reinforcement of silicone and organic rubbers. Good high and low temperature stability

Markets & Applications

- One Part RTVs
- Two Part RTVs
- Roof Coatings
- Rubber Manufacturing

Fumed Silica

NAME	SPECIFIC SURFACE AREA	LOSS ON DRY	LOSS ON IGNITION
Andifil AS 200	200 ± 30 m ² /g	≤ 1.0%	≤ 2.5%

Silicone Masterbatch

Andiform are vinyl silicone polymers that are compounded with silica for ease of use in RTV formulations. All of these products provide excellent improvement to physical properties and eliminate the hazards of handling or working with hydrophobic silicas.

Markets & Applications

- Dental & Medical
- Mold Making
- Two Part RTVs

Silica Filled Vinyl Polymers

NAME	DESCRIPTION	APPEARANCE @ 25C	RI @ 25C	VINYL CONTENT, MMOLE/G	CAS #
Andiform P 300	Filled Silicone Vinyl-terminated Compound	Uniform, Translucent Paste	1.4100	0.06	68083-18-2
Andiform P 1300	Filled Silicone Vinyl-terminated Compound	Uniform, Translucent Paste	1.4100	0.045	68083-18-2

Additives

NAME	DESCRIPTION	CAS#
Andisil® HMDZ	Hexamethyldisilazane	999-97-3



Silicone Gums & Bases

Silicone Gums – Andigum:Vinyl containing silicone polymers

Andigum Bases – General Purpose VMQ Silicone Base in 40 and 70 durometer

Markets & Applications

- Rubber Manufacturing

Silicone Gum Transparent; free of foreign material
Terminal Vinyl and/or Pendant Vinyl

PRODUCT	PLASTICITY	VOLATILES (%)
Andigum 900	55 - 65	0.0 - 1.8
Andigum 901	55 - 65	0.0 - 3.0

Silicone Bases Translucent; free of foreign material
Specific Gravity: 1.09 -1.23

PROPERTIES	ANDIGUM BASE 40F	ANDIGUM BASE 70F
Duro	40	70
Tensile, Psi	1377	1378
Elongation, %	875	625
Tear, Ppi	194	78.5
CS, %	37	
	CURATIVE	DBPH, 0.7%



Silicone Fluid / Dimethicone

Silicone fluids / Dimethicones are a series of fluids with various viscosities and of excellent purity. Chemically known as dimethyl polysiloxane, they are completely soluble in all viscosities of dimethyl polysiloxane fluids and useful due to their many benefits:

- Thermal stability
- Resistance to change with changes in temperature
- Heat stable
- Resistant to oxidation
- Inert, non-corrosive, nontoxic
- Clear and colorless
- Excellent water repellency
- Good dielectric properties
- Low surface tension
- Very low vapor pressure
- High flash point

Markets & Applications

- Car Care
- Food & Beverage Processing
- Personal Care
- Rubber Manufacturing

Silicone Fluid

NAME	VISCOSITY	RI	VOLATILE %
Andisil® SF 5	5 cSt	1.397	--
Andisil® SF 10	10 cSt	1.399	0.01
Andisil® SF 20	20 cSt	1.401	0.045
Andisil® SF 50	50 cSt	1.402	0.005
Andisil® SF 100	100 cSt	1.403	0.005
Andisil® SF 200	200 cSt	1.403	0.005
Andisil® SF 350 *	350 cSt	1.4035	0.005
Andisil® SF 500	500 cSt	1.4035	0.005
Andisil® SF 1,000	1,000 cSt	1.4035	0.005
Andisil® SF 5,000	5,000 cSt	1.4035	0.015
Andisil® SF 10,000	10,000 cSt	1.4035	0.02
Andisil® SF 12,500	12,500 cSt	1.4035	0.005
Andisil® SF 30,000	30,000 cSt	1.4035	0.005
Andisil® SF 60,000	60,000 cSt	1.404	0.02
Andisil® SF 100,000	100,000 cSt	1.404	0.02
Andisil® SF 600,000	600,000 cP	1.404	0.0075

* Food & Kosher grade available



Silicone Polyethers

Silicone polyethers, also known as silicone surfactants, are used in many industries as:

- Emulsifiers
- Foaming Agents
- Solubilizers
- Softeners
- Surfactants

They are also known to add leveling, slip and mar resistance properties to coatings formulations.

Markets & Applications

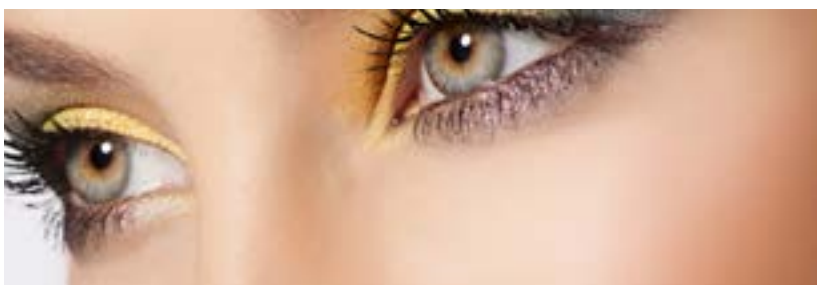
- Car Care
- Coatings
- Personal Care
- Pulp & Paper Manufacturing

Silicone Polyethers

PRODUCT	HLB	VISCOSITY	INDUSTRIES	BENEFIT
Andisil® SP 19 <i>OH Capped</i>		30 cSt	Agriculture	<ul style="list-style-type: none"> ■ Ideal wetting agent ■ Low viscosity and is water dispersible
Andisil® SP 19M <i>Methoxy Capped</i>		20 cSt	Agriculture	<ul style="list-style-type: none"> ■ Ideal wetting agent ■ Low viscosity and is water dispersible ■ Good wetting agent for colorants or pigments
Andisil® SP 4407M		45 cSt		<ul style="list-style-type: none"> ■ Reduces surface tension; provides good wetting and foaming properties
Andisil® SP 4410	4.5	500 cP	Personal Care	<ul style="list-style-type: none"> ■ INCI: PEG-10 Dimethicone ■ Used as emulsifying and co-solubilizing agents for siloxane and organic systems
Andisil® SP 4410B	10.5	300 cP	Personal Care	<ul style="list-style-type: none"> ■ INCI: Bis-PEG-10 Dimethicone ■ Used as emulsifying and co-solubilizing agents for siloxane and organic systems



PRODUCT	HLB	VISCOSITY	INDUSTRIES	BENEFIT
Andisil® SP 4414	13.0	400 cP	Personal Care PU Foam	<ul style="list-style-type: none"> ■ INCI: PEG-12 Dimethicone ■ Useful as a wetting agent and a closed-cell rigid polyurethane foam additive ■ Used as emulsifying and co-solubilizing agents for siloxane and organic systems
Andisil® SP 4414B	8.7	350 cP	Textile & Leather PU Foam Personal Care	<ul style="list-style-type: none"> ■ INCI: Bis-PEG-12 Dimethicone ■ Used as emulsifying and co-solubilizing agents for siloxane and organic systems
Andisil® SP 1818	7.0	2,500 cP	Textile & Leather Paints, Ink, & Coatings Personal Care	<ul style="list-style-type: none"> ■ INCI: PEG/PPG-18/18 Dimethicone ■ Hydrophilic treatment for non-woven substrates ■ Leveling agent ■ Provides slip resistance and mar resistance ■ Increases gloss ■ Imparts smooth, satin feel to surface ■ Used as emulsifying and co-solubilizing agents for siloxane and organic systems



Vinyl Silicones

Vinyl Polymers

Vinyl-terminated dimethylpolysiloxanes available in a range of viscosities and vinyl contents. They can be used as base polymers or as blend polymers in order to create the desired hardness.

NAME	VINYL CONTENT	VISCOSITY
Andisil® VS 6	3.00 mmoles/gm	6 cSt
Andisil® VS 10	1.70 mmoles/gm	10 cSt
Andisil® VS 20	1.20 mmoles/gm	20 cSt
Andisil® VS 50	0.80 mmoles/gm	50 cSt
Andisil® VS 100	0.37 mmoles/gm	100 cSt
Andisil® VS 200	0.25 mmoles/gm	200 cSt
Andisil® VS 250	0.22 mmoles/gm	250 cSt
Andisil® VS 400	0.19 mmoles/gm	400 cSt
Andisil® VS 500	0.15 mmoles/gm	500 cSt
Andisil® VS 1,000	0.11 mmoles/gm	1,000 cSt
Andisil® VS 2,000	0.08 mmoles/gm	2,000 cSt
Andisil® VS 4,000	0.07 mmoles/gm	4,000 cSt
Andisil® VS 5,000	0.06 mmoles/gm	5,000 cSt
Andisil® VS 10,000	0.05 mmoles/gm	10,000 cSt
Andisil® VS 20,000	0.04 mmoles/gm	20,000 cSt
Andisil® VS 65,000	0.03 mmoles/gm	65,000 cP
Andisil® VS 80,000	0.024 mmoles/gm	80,000 cP
Andisil® VS 100,000	0.02 mmoles/gm	100,000 cP
Andisil® VS 165,000	0.015 mmoles/gm	165,000 cP

Markets & Applications

- Dental & Medical
- Electronic Encapsulation
- Mold Making
- Rubber Manufacturing
- Two Part RTVs



Vinyl Resins

Additives for the improvement of mechanical properties of addition cured silicone elastomers.

NAME	REFRACTIVE INDEX	VISCOSITY	VINYL CONTENT
Andisil® VQM 0.6	1.406	600 cP	0.3 mmole/gm
Andisil® VQM 1	1.406	1,200 cP	0.24 mmoles/gm
Andisil® VQM 6	1.406	6,000 cP	0.22 mmoles/gm
Andisil® VQM 60	1.406	60,000 cP	0.20 mmoles/gm
Andisil® VQM 100	1.406	100,000 cP	0.52 mmoles/gm
Andisil® VQM 1040	1.406	15,000 cP	0.40 mmoles/gm
Andisil® VQM 2050	1.406	500 cP	1.1 mmoles/gm

Specialty Vinyl Polymers

Used in two part RTV formulations to adjust mechanical properties including the durometer and crosslinking density.

NAME	VINYL CONTENT	VISCOSITY
Andisil® VDM 500	0.28 mmoles/gm	500 cSt
Andisil® VDM 65,000	1.30 mmoles/gm	65,000 cP
Andisil® MV 2,000	0.06 mmoles/gm	2,000 cSt

Inhibitors

NAME	DESCRIPTION	CAS#
Andisil® 2827-186L	1,3 Divinyl Tetramethyl Disiloxane	2627-95-4
Andisil® MVC	Methyl Vinyl Cyclics	2554-06-5



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

