



Personal Care

Silicones Deliver Delightful Sensory Experiences and Unparalleled Performance

Advanced Silicones Deliver Perceivable Performance Consumers Desire

Elkem is a leading global supplier of silicone-based products that deliver functional and sensory benefits that excite consumers worldwide. Since 1995, Elkem has invested in developing solutions that inspire personal care formulators beginning with our full range MIRASIL™ product line. Our PURESIL™ brand expands Elkem's offering with a highly differentiated range of materials including elastomer gels, powders, film formers and hybrid silicones suitable for a wide variety of cosmetic formulas. In addition to their multifunctional benefits, PURESIL™ products also impart exceptional sensorial and visual effects that truly deliver a delightful consumer experience.

Elkem strives to deliver personal touch service to all our customers. Personal care formulators can tap into Elkem's extensive application and regulatory expertise anywhere in the world with our labs in Spain, China, South Korea, France, Brazil, and the United States. Our global manufacturing footprint and vertically integrated supply chain provide line of sight and ease of access. Further, Elkem is committed to creating a more sustainable world through continuous process improvements and innovative renewable product offerings.



Today's consumers desire more from beauty care products. They expect products tailored to their specific needs, delivering perceivable benefits and helping them to instantly look good and feel better. Beauty care brands are being challenged to create safe and effective products meeting the needs of every skin and hair type and marketable to men and women of different cultures worldwide.



Hair Care Products

Shampoo and conditioners, shine sprays and frizz serums, etc.

They provide superior conditioning, add shine, control frizz, provide easy detangling and protect from further damage.



Skin Care Products

Creams, lotions, and anti-aging serums, acne treatments, etc.

They add a silky smooth feel to the skin and mask fine lines to deliver the attributes of a healthier and more youthful appearance.



Color Cosmetics

Lipsticks and lip colors, foundations, eye shadows, primers, powders, etc.

They impart color intensity, uniformity, non-transfer, luminosity and comfort with long lasting performance.



Sunscreen Products

Skin creams, lotions and foundations with SPF.

They reduce the tackiness of organic sunscreens, boost the SPF and increase the water repellency.



Deodorant Products

Anti-perspirant and deodorant gels, sticks, rollons and aerosols.

They reduce the whiteness and the tack of the antiperspirant salt, improve skin feel and provide easy glide.

Typical Properties of Personal Care Product Offerings

Volatile silicones fluids

		Typical physical properties			
Product name	INCI name	Viscosity 25°C (mm ² /s)	Specific gravity 25°C	Refractive index 25°C	Flash point (°C)
MIRASIL™ CM5 HP	Cyclopentasiloxane	3.9	0.95	1.395	80
MIRASIL™ DM 2	Dimethicone	2.0	0.87	1.391	85

Dimethicone fluids

Product name	INCI name	Typical physical properties			
		Viscosity 25°C (mPa.s)	Specific gravity 25°C	Refractive index 25°C	Flash point (°C)
MIRASIL™ DM 5	Dimethicone	5	0.92	1.396	130
MIRASIL™ DM 10		10	0.93	1.399	> 180
MIRASIL™ DM 20		20	0.95	1.401	240
MIRASIL™ DM 50		50	0.96	1.401	300
MIRASIL™ DM 100		100	0.96	1.402	300
MIRASIL™ DM 350		350	0.97	1.403	300
MIRASIL™ DM 500		500	0.97	1.403	300
MIRASIL™ DM 1 000		1 000	0.97	1.403	300
MIRASIL™ DM 5 000		5 000	0.97	1.404	300
MIRASIL™ DM 60 000		60 000	0.97	1.404	300
MIRASIL™ DM 300 000		300 000	0.97	1.404	300
MIRASIL™ DM 500 000		500 000	0.97	1.404	300

Silicone gum blends

Product name	INCI name	Typical physical properties			
		Non-volatile content (%)	Viscosity 25°C (mPa.s)	Refractive index 25°C	Flash point (°C)
Silicone gum in volatile carrier					
MIRASIL™ C-DM	Cyclopentasiloxane (and) Dimethicone	30	3 500	1.399	75
MIRASIL™ C-DMB		15	6 000	1.398	75
MIRASIL™ C-DML	Cyclopentasiloxane (and) Dimethiconol	15	6 000	1.397	75
MIRASIL™ C-DML LV		11	1 750	1.397	75
MIRASIL™ C-DML MV		12	2 300	1.397	75
MIRASIL™ C-DML HV		16	7 000	1.398	75
MIRASIL™ D-DML VT	Dimethicone (and) Dimethiconol	20	6 000	1.393	90
Silicone gum in non-volatile carrier					
MIRASIL™ D-DMB	Dimethicone	100	3 300	1.397	>100
MIRASIL™ D-DML	Dimethicone (and) Dimethiconol	100	4 500	1.401	200
MIRASIL™ D-DML LV		100	1 500	1.397	135
MIRASIL™ D-DML MV		100	10 500	1.401	200
MIRASIL™ D-DML HV		100	8 500	1.401	200
MIRASIL™ N-DML 15	C15-19 Alkane (and) Dimethiconol	90 (at 35°C) & 80 (at 60°C)	4 000	1.427	>105

Phenyl gum blends

		Typical physical properties			
Product name	INCI name	Non-volatile content (%)	Viscosity 25°C (mPa.s)	Refractive index 25°C	Flash point (°C)
Phenyl gum blends					
MIRASIL™ C-DPDM	Cyclopentasiloxane (and) Diphenyl Dimethicone	15	2 000	1.404	>80
MIRASIL™ BRIGHT	C15-19 Alkane (and) Diphenyl Dimethicone	100	1 500	1.444	125
MIRASIL™ SERUM	Cyclopentasiloxane (and) C15-19 Alkane (and) Dimethiconol (and) Diphenyl Dimethicone (and) Propoxytetramethyl Piperidinyl Dimethicone	20	800	1.410	>100

Amino silicone fluids

		Typical physical properties			
Product name	INCI name	Viscosity 25°C (mPa.s)	Specific gravity 25°C	Refractive index 25°C	Flash point (°C)
Amino functional silicones					
MIRASIL™ ADM 211	Amodimethicone	1 100	0.98	1.408	106
MIRASIL™ ADM 403		325	0.98	1.407	104
MIRASIL™ ADME-NP	Amodimethicone (and) Trideceth-6	<2 000	1.00	N/A	N/A
Hindered amine functional silicones - radical scavengers					
MIRASIL™ ADMH 395	Propoxytetramethyl Piperidinyl Dimethicone	10 000	0.98	1.407	105
MIRASIL™ ADMH 3900		90 000	0.98	1.407	105
MIRASIL™ ADMH 403		250	0.98	1.408	105
MIRASIL™ ADMH B 100	C15-19 Alkane (and) Propoxytetramethyl Piperidinyl Dimethicone	2 000	0.88	1.428	125
MIRASIL™ ADMH-E 125	Propoxytetramethyl Piperidinyl Dimethicone (and) Trideceth-6	<2 000	1.00	N/A	N/A

Alkyl silicones

Product name	INCI name	Typical physical properties				
		Appearance	Viscosity 25°C (mPa.s)	Specific gravity 25°C	Refractive index 25°C	Flash point (°C)
PURESIL™ CAPRYLYL TSO E6	Caprylyl Methicone	Clear liquid	3 mm ² /s	0.84	1.413	>100
PURESIL™ CETYL DM E6	Cetyl Dimethicone	Clear liquid	300	0.90	1.436	150
PURESIL™ STEARYL DM E6	Stearyl Dimethicone	Wax*	250 (40°C)	0.8 (20°C)	No data available	>100

* Melting point 32°C

Fluoro functional silicones

Product name	INCI name	Typical physical properties			
		Viscosity 25°C (mPa.s)	Specific gravity 25°C	Refractive index 25°C	Flash point (°C)
PURESIL™ TFL 5	Trifluoropropyl Dimethicone	<50	0.98	1.397	100
PURESIL™ TFL 30		40 - 200	1.19	1.379	100
PURESIL™ SF-30	Perfluorobutylethyl Stearyl Dimethicone	200 - 1000	0.97	1.423	218

Silicone elastomer gels

Product name	INCI name	Typical physical properties			
		Crosspolymer (%)	Carrier	Viscosity 25°C (mPa.s)	Refractive index 25°C
Dimethicone grade					
PURESIL™ BSG-200	Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer	20 - 30	Non-volatile	100 000 - 400 000	1.405
PURESIL™ BSG-200S				60 000 - 120 000	1.405
PURESIL™ BSG-5041				300 000 - 500 000	1.400
PURESIL™ D-308		5 - 10	Volatile	50 000 - 100 000	1.398
PURESIL™ BSG-650 DF	Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Phenyl Trimethicone (and) Stearyl Dimethicone	5 - 10	Non-volatile	10 000 - 60 000	1.399
Cyclomethicone grade					
PURESIL™ BSG-250	Cyclopentasiloxane (and) Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer	20 - 30	Volatile	100 000 - 400 000	1.398
PURESIL™ BSG-350	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	5 - 10		20 000 - 60 000	1.398
PURESIL™ BSG-5040		10 - 20		350 000 - 550 000	1.398
PURESIL™ BSG-5045		300 000 - 500 000		1.398	
PURESIL™ CHM 01		Cyclohexasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer		20 - 30	120 000 - 300 000

Silicone elastomer gels

Product name	INCI name	Typical physical properties			
		Crosspolymer (%)	Carrier	Viscosity 25°C (mPa.s)	Refractive index 25°C
Naturally-derived organic carrier					
PURESIL™ ORG 01	C13-15 Alkane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	10 - 20	NI* ≥ 0.8 , Non-volatile	100 000 - 300 000	1.421
PURESIL™ ORG 02	C13-15 Alkane (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Silica	15 - 25	NI* ≥ 0.75 , Non-volatile	200 000 - 500 000	1.426
PURESIL™ ORG 03	C13-15 Alkane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	10 - 20	NI* ≥ 0.8 , Non-volatile	500 - 2 000	1.428
Available in N. America					
MIRASIL™ C-DMX 12	Cyclopentasiloxane (and) Dimethicone Crosspolymer	10 - 14	Volatile	250 000 - 580 000	-
MIRASIL™ D-DMX 17	Dimethicone (and) Dimethicone Crosspolymer	8 - 10	Non-volatile	300 000 - 500 000	-

* Natural Index according to ISO 16128

Silicone elastomer powders

Product name	INCI name	Typical physical properties		
		Particle size range (µm)	Bulk specific gravity	Non-volatile content (%)
PURESIL™ EP 02	Dimethicone/Vinyl Dimethicone Crosspolymer (and) Silica	2 - 20	0.39	>99
PURESIL™ EP 04	Dimethicone/Vinyl Dimethicone Crosspolymer	2 - 30	0.25	>99

Silicone polyethers and emulsifiers

Product name	INCI name	Typical physical properties			
		Active content (%)	HLB (calculated)	Viscosity 25°C (mPa.s)	Refractive index 25°C
Silicone polyethers					
MIRASIL™ DMCO	PEG/PPG-22/24 Dimethicone	100	13	1 800	1.446
PURESIL™ PEG 12 DM E6	PEG-12 Dimethicone	100	14	200	1.456
Silicone emulsifiers					
MIRASIL™ C-DMP	Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone	11	2	<100	1.397
PURESIL™ BALANCE E6	Cetyl PEG/PPG-10/1 Dimethicone	100	3	1 500	1.438
PURESIL™ ESG 01	Dimethicone (and) PEG/PPG-19/19 Dimethicone/Vinyl Dimethicone Crosspolymer (and) PEG-10 Dimethicone	20 - 30	-	50 000 - 150 000	1.400 - 1.405

Silicone film-formers

Typical physical properties					
Product name	INCI name	Carrier	Viscosity 25°C (mm ² /s)	Refractive index 25°C	Flash point (°C)
PURESIL™ TMS DM 30	Dimethicone (and) Trimethylsiloxysilicate	Non-volatile	400 - 1 000	1.407	> 200
PURESIL™ TMS IDD 50	Trimethylsiloxysilicate (and) Isododecane	Volatile	<50	1.418	48

Silicone powder resin

Typical physical properties					
Product name	INCI name	Appearance	Average particle size (µm)	Bulk specific gravity (g/ml)	Refractive index 25°C
MIRASIL™ MICROPEARL 40	Polymethylsilsesquioxane	White powder	4	0.4 - 0.6	1.430

Hair Care

Silicones: Deliver Unparalleled Performance



Solutions for Shiny Healthy Hair

Elkem MIRASIL™ silicones encompass a wide range of solutions that address emerging trends for a variety of hair care products. Although silicones have been key conditioning ingredients for decades, Elkem's hair care portfolio of products can do much more than just improve combing. Volatile silicones help reduce drying time, amino functional silicones repair damage and protect color, phenyl modified silicones impart brilliant shine, gum blends control frizz.

Whatever your hair care challenge, Elkem can help.

Hair Care Selector Guide

Volatiles silicones

Product name	INCI name	Function / Benefits			
		Transient detangling	Non-cooling upon drying	Carrier fluid	Organic compatibility
MIRASIL™ CM5 HP	Cyclopentasiloxane	■	■	■	■
MIRASIL™ DM 2	Dimethicone	■	■	■	■

- Suitable
- Good
- Very good

Dimethicone fluids

Product name	INCI name	Function / Benefits			
		Detangling	Smoothness	Shine	Frizz control
MIRASIL™ DM 5	Dimethicone	■	■		
MIRASIL™ DM 10		■	■		
MIRASIL™ DM 350		■	■■	■	
MIRASIL™ DM 500		■	■■	■	
MIRASIL™ DM 1000		■	■■	■	
MIRASIL™ DM 60 000		■■	■■■	■■	■■
MIRASIL™ DM 300 000		■■	■■■	■■	■■
MIRASIL™ DM 500 000		■■	■■■	■■	■■

- Suitable
- Good
- Very good

Silicone gum blends

Product name	INCI name	Function / Benefits				
		Detangling	Smoothness	Shine	Thermal protection	Frizz control
Silicone gum in volatile carrier						
MIRASIL™ C-DM	Cyclopentasiloxane (and) Dimethicone	■ ■	■ ■	■ ■	■	■ ■
MIRASIL™ C-DMB		■ ■	■ ■	■	■	■ ■
MIRASIL™ C-DML	Cyclopentasiloxane (and) Dimethiconol	■ ■	■ ■	■	■ ■	■ ■
MIRASIL™ C-DML LV		■ ■	■ ■	■	■	■ ■
MIRASIL™ C-DML MV		■ ■	■ ■	■	■	■ ■
MIRASIL™ C-DML HV		■ ■	■ ■	■	■	■ ■
MIRASIL™ D-DML VT	Dimethicone (and) Dimethiconol	■ ■	■ ■	■	■ ■	■ ■
Silicone gum in non-volatile carrier						
MIRASIL™ D-DMB	Dimethicone	■ ■	■ ■	■	■	■ ■
MIRASIL™ D-DML	Dimethicone (and) Dimethiconol	■ ■	■ ■	■	■ ■	■ ■
MIRASIL™ D-DML LV		■ ■	■ ■	■	■	■ ■
MIRASIL™ D-DML MV		■ ■	■	■	■	■ ■
MIRASIL™ D-DML HV		■ ■	■ ■	■	■	■ ■
MIRASIL™ N-DML 15	C15-19 Alkane (and) Dimethiconol	■ ■	■ ■	■ ■	■ ■	■ ■

- Suitable
- ■ Good
- ■ ■ Very good

Phenyl gum blends

Product name	INCI name	Function / Benefits					
		Detangling	Smoothness	Shine	Thermal protection	Color protection	Frizz control
Phenyl gum blends							
MIRASIL™ C-DPDM	Cyclopentasiloxane (and) Diphenyl Dimethicone	■	■■	■■	■■■	■	■
MIRASIL™ BRIGHT	C15-19 Alkane (and) Diphenyl Dimethicone	■	■■	■■■	■■■	■	■■
MIRASIL™ SERUM	Cyclopentasiloxane (and) C15-19 Alkane (and) Dimethiconol (and) Diphenyl Dimethicone (and) Propoxytetramethyl Piperidiny Dimethicone	■■	■■■	■■■	■■■	■■**	■■

** Additional UV protection

- Suitable
- Good
- Very good

Amino silicone fluids

Product name	INCI name	Function / Benefits					
		Detangling	Smoothness	Shine	Thermal protection	Color protection	Frizz control
Amino functional silicones							
MIRASIL™ ADM 211	Amodimethicone	■ ■	■	■	■ ■	■ ■	■
MIRASIL™ ADM 403		■ ■	■ ■	■	■ ■	■ ■	■
MIRASIL™ ADME-NP	Water (and) Amodimethicone (and) Trideceth-6	■ ■	■ ■	■	■ ■	■ ■	■
Hindered amine functional silicone fluids - radical scavengers							
MIRASIL™ ADMH 395	Propoxytetramethyl Piperidiny Dimethicone	■ ■	■ ■	■	■ ■	■ ■	■ ■
MIRASIL™ ADMH 3900		■ ■	■ ■	■	■ ■	■ ■	■
MIRASIL™ ADMH 403		■ ■	■ ■	■	■ ■	■ ■	■
MIRASIL™ ADMH B 100	C15-19 Alkane (and) Propoxytetramethyl Piperidiny Dimethicone	■ ■	■ ■ ■	■	■ ■ ■	■ ■	■ ■
MIRASIL™ ADMH-E 125	Water (and) Propoxytetramethyl Piperidiny Dimethicone (and) Trideceth-6	■ ■	■ ■	■	■ ■	■ ■	

- Suitable
- ■ Good
- ■ ■ Very good

Alkyl silicones

Product name	INCI name	Function / Benefits			
		Detangling	Smoothing	Hydrocarbon compatibility	Shine
PURESIL™ CAPRYLYL TSO E6	Caprylyl Methicone	■		■■■	
PURESIL™ CETYL DM E6	Cetyl Dimethicone	■	■■	■	■
PURESIL™ STEARYL DM E6	Stearyl Dimethicone	■	■■	■■	■

- Suitable
- Good
- Very good

Silicone polyethers and emulsifiers

Product name	INCI name	Function / Benefits					
		Detangling	Shine	Foam booster	Light weight conditioner	Water-in-Si emulsifier	Water-in-oil/Si emulsifier
Silicone polyethers							
MIRASIL™ DMC0	PEG/PPG-22/24 Dimethicone	■	■	■	■		
PURESIL™ PEG 12 DM E6	PEG-12 Dimethicone	■	■	■	■		
Silicone emulsifiers							
MIRASIL™ C-DMP	Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone					■	
PURESIL™ BALANCE E6	Cetyl PEG/PPG-10/1 Dimethicone						■

- Suitable
- Good
- Very good

Fluoro functional silicones

Product name	INCI name	Function / Benefits				
		Softness	Shine	Thermal protection	Frizz control	Efficacy at low usage level
PURESIL™ TFL 5	Trifluoropropyl Dimethicone	■■■		■■■	■■■	■
PURESIL™ TFL 30		■■		■	■	■
PURESIL™ SF-30	Perfluorobutylethyl Stearyl Dimethicone	■■	■■	■■	■■■	■

- Suitable
- Good
- Very good

Color Cosmetics / Skin Care

Silicones: Delivering Uncompromised Beauty



High Performance Ingredients for Healthy, Glowing Skin

Elkem MIRASIL™ and PURESIL™ multifunctional ingredients deliver perceivable consumer benefits in skin care and color cosmetics formulas. MIRASIL™ dimethicone fluids increase spread-ability, improve payout and reduce the tackiness of sunscreens and natural fats and oils. Silicone emulsifiers help create elegant moisturizers and sunscreens. Phenyl modified silicones make lipstick shine and facial cosmetics glow.

The PURESIL™ portfolio presents exciting advanced technologies to the cosmetic formulators: the elastomer gels and powders impart silky cushiony feel, blur fine lines, boost SPF, absorb sebum and deliver an instant healthier look and feel. The portfolio also includes eco-friendly PURESIL™ ORG series that are largely derived from sustainably sourced sugarcane. For long-lasting benefits, PURESIL™ resin film formers enhance transfer resistance, while the fluorosilicones excel in dispersing pigments, improving film integrity and providing resistance against water and oil.

Let Elkem help you create products that are sure to delight consumers!

Color Cosmetics & Skin Care Selector Guide

Volatile silicones

Product name	INCI name	Function / Benefits				
		Enhanced spreading	Reduced tackiness	Softness	Dry feel	Pigment spreading
MIRASIL™ CM5 HP	Cyclopentasiloxane	■■■	■	■	■■	■■
MIRASIL™ DM 2	Dimethicone	■■■	■	■	■	■■

- Suitable
- Good
- Very good

Dimethicone fluids

Product name	INCI name	Function / Benefits			
		Enhanced spreading	Reduced tackiness	Softness	Barrier film
MIRASIL™ DM 5	Dimethicone	■ ■	■	■	
MIRASIL™ DM 10		■ ■	■	■	
MIRASIL™ DM 20		■	■	■	
MIRASIL™ DM 50		■	■	■	
MIRASIL™ DM 100		■	■	■	
MIRASIL™ DM 350		■	■	■	
MIRASIL™ DM 500		■	■	■	
MIRASIL™ DM 1 000			■	■	
MIRASIL™ DM 5 000				■	■
MIRASIL™ DM 60 000				■	■
MIRASIL™ DM 300 000				■	■
MIRASIL™ DM 500 000				■	■

- Suitable
- ■ Good
- ■ ■ Very good

Silicone gum blends

Product name	INCI name	Function / Benefits				
		Softness	Nourishing feel	Wash-off resistance	Long lasting	Barrier film
Silicone gum in volatile carrier						
MIRASIL™ C-DM	Cyclopentasiloxane (and) Dimethicone	■		■	■■	■
MIRASIL™ C-DMB		■■		■	■■	■
MIRASIL™ C-DML	Cyclopentasiloxane (and) Dimethiconol	■■		■	■■	■
MIRASIL™ C-DML LV		■■		■	■■	■
MIRASIL™ C-DML MV		■■		■	■■	■
MIRASIL™ C-DML HV		■■		■	■■	■
MIRASIL™ D-DML VT	Dimethicone (and) Dimethiconol	■■		■	■■	■
Silicone gum in non-volatile carrier						
MIRASIL™ D-DMB	Dimethicone	■■	■	■	■■	■
MIRASIL™ D-DML	Dimethicone (and) Dimethiconol	■■	■	■	■■	■
MIRASIL™ D-DML LV		■■	■	■	■■	■
MIRASIL™ D-DML MV		■■	■	■	■■	■
MIRASIL™ D-DML HV		■■	■	■	■■	■
MIRASIL™ N-DML 15	C15-19 Alkane (and) Dimethiconol	■■	■	■	■■	■

- Suitable
- Good
- Very good

Phenyl gum blends

Product name	INCI name	Function / Benefits						
		Shine	Smoothness	Reduced tackiness	Water repellence	Pigment dispersant	Long lasting	Barrier film
Phenyl gum blends								
MIRASIL™ C-DPDM	Cyclopentasiloxane (and) Diphenyl Dimethicone	■ ■	■	■	■	■	■	■
MIRASIL™ BRIGHT	C15-19 Alkane (and) Diphenyl Dimethicone	■ ■	■ ■	■	■	■	■ ■ ■	■
MIRASIL™ SERUM	Cyclopentasiloxane (and) C15-19 Alkane (and) Dimethiconol (and) Diphenyl Dimethicone (and) Propoxytetramethyl Piperidiny Dimethicone	■	■ ■	■	■	■	■ ■	■

- Suitable
- ■ Good
- ■ ■ Very good

Hindered amine functional silicone fluids - Skin friendly radical scavengers

Product name	INCI name	Function / Benefits						
		Softness	Shine	Reduced tackiness	Water repellence	Color intensity	Pigment dispersant	Long lasting
MIRASIL™ ADMH 395	Propoxytetramethyl Piperidiny Dimethicone	■ ■			■ ■		■ ■	
MIRASIL™ ADMH 3900		■ ■	■		■ ■ ■			■ ■ ■
MIRASIL™ ADMH 403		■ ■		■	■	■ ■ ■	■ ■ ■	
MIRASIL™ ADMH B 100	C15-19 Alkane (and) Propoxytetramethyl Piperidiny Dimethicone	■ ■	■	■	■ ■		■ ■	■ ■

- Suitable
- ■ Good
- ■ ■ Very good

Alkyl silicones

Product name	INCI name	Function / Benefits						
		Enhanced spreading	Reduced tackiness	Smoothness	Shine	Water repellence	Color intensity	Pigment dispersant
PURESIL™ CAPRYLYL TSO E6	Caprylyl Methicone	■■■	■■■		■	■		■■■
PURESIL™ CETYL DM E6	Cetyl Dimethicone	■	■■	■	■■	■■	■■■	■■
PURESIL™ STEARYL DM E6	Stearyl Dimethicone	■■	■■	■■	■■	■■■	■■	■■

- Suitable
- Good
- Very good

Silicone polyethers and emulsifiers

Product name	INCI name	Reduced tackiness	Pigment dispersant	Co-emulsifier	Water dispersable	W-in-Si/oil emulsifier	W-in-Si emulsifier	Cold process
Silicone polyethers								
MIRASIL™ DMC0	PEG/PPG-22/24 Dimethicone	■	■■	■	■			■
PURESIL™ PEG 12 DM E6	PEG-12 Dimethicone	■	■■	■	■			■
Silicone emulsifiers								
MIRASIL™ C-DMP	Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone	■	■■■				■■	■
PURESIL™ BALANCE E6	Cetyl PEG/PPG-10/1 Dimethicone	■	■■■			■■■		■
PURESIL™ ESG 01	Dimethicone (and) PEG/PPG-19/19 Dimethicone/Vinyl Dimethicone Crosspolymer (and) PEG-10 Dimethicone	■■				■■		■■

- Suitable
- Good
- Very good

Silicone elastomer gels

Product name	INCI name	Function / Benefits						
		Spreadability	Moisturized feel	Cushiony feel	Matte finish	Shine / Glow	SPF boosting	Thickening
Dimethicone carriers								
PURESIL™ BSG-200	Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer	■	■■■	■■	■■			■
PURESIL™ BSG-200S		■	■■■	■■■	■■		■	■
PURESIL™ BSG-5041		■	■■■	■■	■■			■■
PURESIL™ D-308		■■■	■■	■■	■			
PURESIL™ BSG-650 DF	Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Phenyl Trimethicone (and) Stearyl Dimethicone	■■	■■■	■	■+	■		
Cyclomethicone carriers								
PURESIL™ BSG-250	Cyclopentasiloxane (and) Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer	■■	■■■	■■	■■■			■
PURESIL™ BSG-350	Cyclopentasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	■■■	■■	■	■■			
PURESIL™ BSG-5040		■	■■	■■■	■■■			■
PURESIL™ BSG-5045		■	■■	■■■	■■■			■■
PURESIL™ CHM 01	Cyclohexasiloxane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	■	■■■	■■■	■■■			■■

+ matte finish with glow effect

- Suitable
- Good
- Very good

Silicone elastomer gels

Product name	INCI name	Function / Benefits						
		Spreadability	Moisturized feel	Cushiony feel	Soft focus /Matte	Shine /Glow	SPF boosting	Thickening
Naturally-derived organic carrier								
PURESIL™ ORG 01	C13-15 Alkane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	■■■	■■	■■	■■	■	■	■■
PURESIL™ ORG 02	C13-15 Alkane (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Silica	■	■■	■■	■■■			■■■
PURESIL™ ORG 03	C13-15 Alkane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	■■■	■■■	■		■■		■

- Suitable
- Good
- Very good

Silicone elastomer powders

Product name	INCI name	Function / Benefits					
		Lubricious	Cushiony feel	Soft focus	Matte finish	Sebum control	Delivery of humectant
PURESIL™ EP 02	Dimethicone/Vinyl Dimethicone Crosspolymer (and) Silica	■ ■	■	■ ■ ■	■ ■ ■	■ ■ ■	■
PURESIL™ EP 04	Dimethicone/Vinyl Dimethicone Crosspolymer	■	■ ■	■ ■	■ ■	■ ■	■ ■

Silicone film-formers

Product name	INCI name	Function / Benefits				
		Smooth finish	Transfer resistance	Pigment dispersion	Water resistance	Oil resistance
PURESIL™ TMS DM 30	Dimethicone (and) Trimethylsiloxysilicate	■	■ ■ ■	■ ■	■ ■ ■	■ ■
PURESIL™ TMS IDD 50	Trimethylsiloxysilicate (and) Isododecane	■ ■	■ ■ ■	■ ■	■ ■ ■	■ ■ ■

- Suitable
- ■ Good
- ■ ■ Very good

Silicone powder resin

Product name	INCI name	Function / Benefits					
		Lubricious	Smoothness	Reduced tackiness	Soft focus	Matte finish	Pigment dispersion
MIRASIL™ MICROPEARL 40	Polymethylsilsesquioxane	■ ■	■ ■	■	■ ■ ■	■	■

Fluorosilicone fluids

Product name	INCI name	Function / Benefits						
		Spreadability	Smoothness	Water & oil repellence	Lasting hydration	Improve film integrity	Natural glow	Pigment dispersion
PURESIL™ TFL 5	Trifluoropropyl Dimethicone	■ ■ ■	■ ■	■	■	■ ■	■	■
PURESIL™ TFL 30		■	■ ■ ■	■ ■ ■	■ ■ ■	■	■ ■	■ ■
PURESIL™ SF-30	Perfluorobutylethyl Stearyl Dimethicone	■ ■	■ ■	■ ■	■ ■	■ ■ ■	■ ■ ■	■ ■ ■

- Suitable
- ■ Good
- ■ ■ Very good

Sustainability

Providing High Performance Silicones and Preserving our Planet



Our Progress on Sustainability

Elkem continues to provide advanced material solutions and shape a better and more sustainable future, while ensuring the safety of its materials in accordance with worldwide regulations. By focusing on process improvement, energy efficiency, shifting to renewable power and enabling a Circular Economy, Elkem has made great progress towards our Environment, Social and Governance commitment.



In 2023, Elkem continues to lead the way in climate strategy and reporting transparency confirmed with our A- rating on CDP climate and gold rating on Ecovadis

From Silica to Silicone

Silicones are mineral-based polymers derived from quartz and sand, one of the most abundant natural sources on earth.

As an integrated silicone manufacturer, we are well positioned to reduce our emissions and dependence on fossil fuels.

Our Commitment

Reducing our absolute carbon footprint by 28% by 2031 while increasing our output, through a 39% reduction of the CO₂ emissions per unit of product. We aim to achieve fully carbon neutral production (zero fossil emissions) globally by 2050.

Personal Care

Discover our PURESIL™ ORG series.


Our eco-designed offerings, feature high Natural Index (ISO 16128), low carbon footprint and enhanced biodegradability. These ingredients deliver highly desirable consumer-perceived benefits with a step towards sustainability.

Elkem supports you

We focus on developing state-of-the-art application expertise to help our customers challenge their boundaries. At Elkem, we're more than just high quality silicone products.

We are dedicated people located around the globe committed to your success. From technical support to customized formulations and regulatory support, Elkem has the people in place when and where you need them.

Contact us

in  **Elkem ASA**

[elkem.com](https://www.elkem.com)

