PERSONAL CARE

Specialty elastomers from Dow



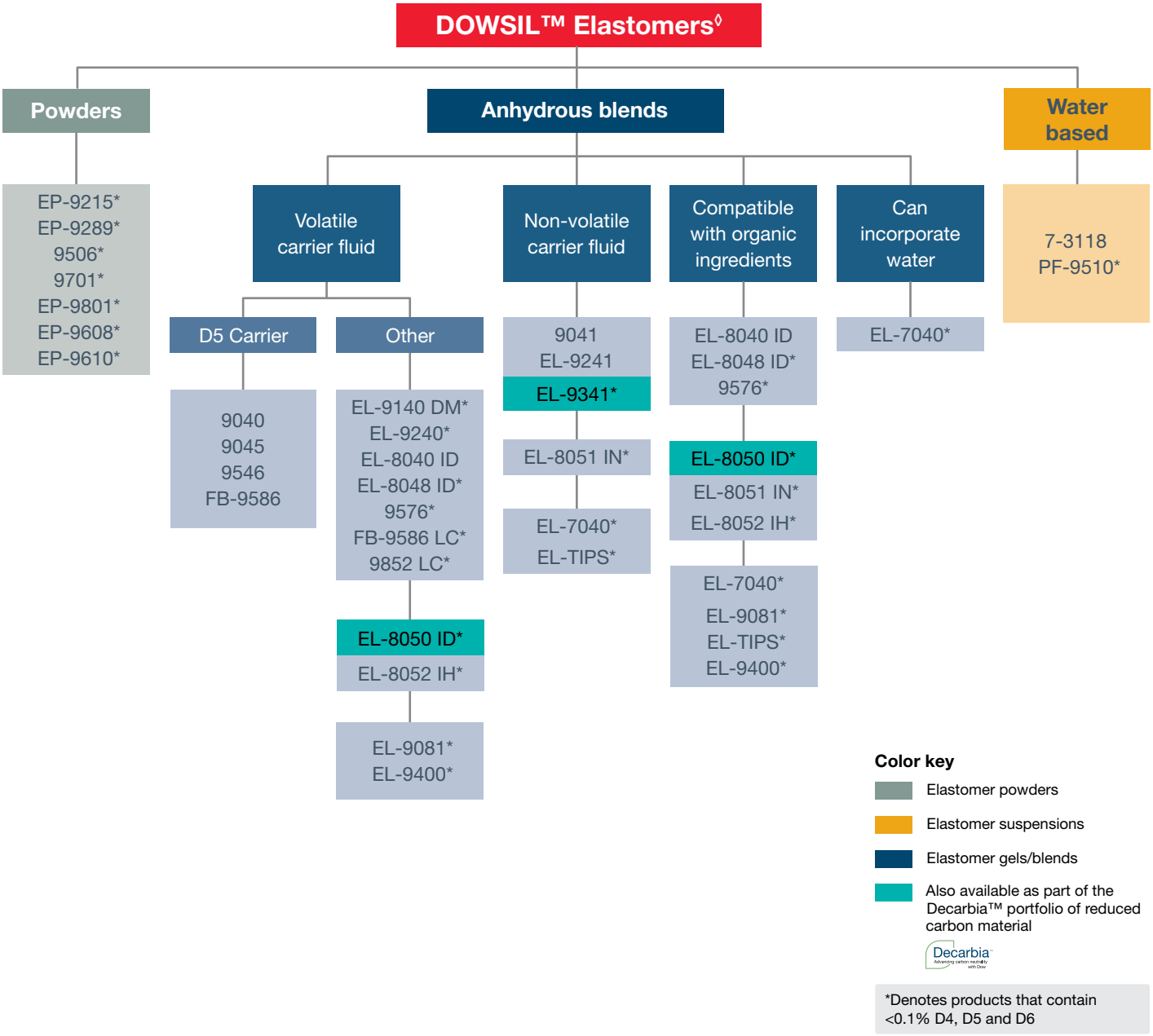


Table of contents

DOWSIL™ Elastomers offerings at a glance	2	Carbon Neutrality silicone elastomer blends	7
Silicone elastomer suspensions	3	Silicone elastomer powders	8
Silicone elastomer gels/blends	4	Organic compatibility	9
Silicone Organic Elastomer Blends (SOEB)	5	Paired comparison	10
Hydrophilic elastomer blend	6	Potential silicone diluents for elastomer gels	11

DOWSIL™ Elastomers offerings at a glance

DOWSIL™ Elastomers are specialty silicone products that offer multifunctional benefits to formulations, including a distinct silky powdery feel, sebum absorption, wrinkle masking, delivery of actives, film formation and active suspension.



◊ See tables on pages 3-11 for full product names.

Silicone elastomer suspensions: pre-emulsified water dispersible elastomers

Trade name	INCI name	Preservative system	Typical elastomer content	Residual			Features
				D4	D5	D6	
DOWSIL™ 7-3118 EBAP HIP Emulsion	Cyclopentasiloxane (and) Dimethicone Crosspolymer (and) Dimethicone (and) Laureth-23 (and) Laureth-4	Phenoxyethanol + Potassium Sorbate	8.5%	<1%	NR	<2%	• High internal phase (85% active) emulsion • Easily diluted with water • Supports cold blending and low shear processing • Simple aesthetic modification
DOWSIL™ PF-9510 Silicone Elastomer Suspension*	Dimethicone/Vinyl Dimethicone Crosspolymer (and) C12-14 Alketh-12	Chlorphenesin + Phenoxyethanol	63%	<0.1%	<0.1%	<0.1%	• High oil and sebum absorption • Reduces greasiness • Mattifying

These are typical properties not to be construed as specifications.

NR: Not residual

*SPM: Synthetic Polymer Microparticle based on Annex XVII to Regulation (Europe Commission) No 1907/2006 amendment published on September 25, 2023, COMMISSION REGULATION (Europe Union) 2023/2055

Silicone elastomer gels/blends: Oil dispersible elastomer gels

Trade name	INCI name	Carrier fluid	Carrier volatility	Viscosity	NVC	Residual			Features
						D4	D5	D6	
DOWSIL™ 9040 Elastomer Blend	Cyclopentasiloxane (and) Dimethicone Crosspolymer	Cyclopentasiloxane	Volatile	250,000 to 580,000 cP	12% to 12.75%	<1%	NR	<4%	• Smooth powdery feel • Fragrance delivery • Oil phase thickener • Actives delivery
DOWSIL™ 9045 Silicone Elastomer Blend	Cyclopentasiloxane (and) Dimethicone Crosspolymer	Cyclopentasiloxane	Volatile	350,000 to 550,000 cP	12% to 12.75%	<1%	NR	<4%	• Smooth powdery feel • Fragrance retention • Oil phase thickener
DOWSIL™ 9546 Silicone Elastomer Blend*	Cyclopentasiloxane (and) Dimethicone Crosspolymer (and) Dimethicone/ Vinyldimethicone Crosspolymer (and) Dimethiconol	Cyclopentasiloxane	Volatile	250,000 - 450,000 cP	15.0 - 16.0%	<1%	NR	<3.4%	• Offers dry smoothness and a light, silky, non-greasy skin feel • Oil phase thickening • Fragrance retention • Increased suspension of antiperspirant salts • Actives and pigment suspension
DOWSIL™ FB-9586 Silicone Elastomer Blend*	Cyclopentasiloxane (and) Dimethicone/ Vinyldimethicone Crosspolymer (and) Dimethicone	Cyclopentasiloxane, Dimethicone	Volatile	30,000 to 70,000 cP	40% to 50%	<0.1%	NR	<2%	• Smooth, slippery, powdery skin feel • Non-greasy, non-tacky • Matte appearance
DOWSIL™ EL-9140 DM Silicone Elastomer Blend	Dimethicone (and) Dimethicone Crosspolymer	Dimethicone (1.5 cSt)	Volatile	350,000 to 575,000 cP	13.25% to 14.75%	<0.1%	<0.1%	<0.1%	• Oil phase thickener • Smooth, powdery feel
DOWSIL™ 9576 Smooth Away Elastomer*	Dimethicone (and) Dimethicone Crosspolymer (and) Dimethicone/ Vinyl Dimethicone Crosspolymer (and) Beeswax (and) Silica (and) Silica Silylate	Dimethicone (1.5 cSt)	Volatile	150,000 to 300,000 cP	15% to 17%	<0.1%	<0.1%	<0.1%	• Enhanced for soft focus and imperfection masking • Smooth, powdery feel
DOWSIL™ EL-9240 Silicone Elastomer Blend	Dimethicone (and) Dimethicone Crosspolymer	Dimethicone (2 cSt)	Volatile	350,000 to 575,000 cP	13% to 14.5%	<0.1%	<0.1%	<0.1%	• Oil phase thickener • Smooth, powdery feel

These are typical properties not to be construed as specifications.

NR: Not residual

*SPM: Synthetic Polymer Microparticle based on Annex XVII to Regulation (Europe Commission) No 1907/2006 amendment published on September 25, 2023, COMMISSION REGULATION (Europe Union) 2023/2055

Trade name	INCI name	Carrier fluid	Carrier volatility	Viscosity	NVC	Residual			Features
						D4	D5	D6	
DOWSIL™ FB-9586 LC Silicone Elastomer Blend*	Dimethicone (and) Dimethicone Crosspolymer	Dimethicone (2 cSt)	Volatile	30,000 to 90,000 cP	35% to 50%	<0.1%	<0.1%	<0.1%	• Smooth, slippery, powdery skin feel • Non-greasy, non-tacky • Matte appearance
DOWSIL™ 9852 LC Silicone Gel*	Dimethicone (and) Dimethicone/ Vinyl Dimethicone Crosspolymer	Dimethicone (2 cSt)	Volatile	18,000 to 50,000 cP	24% to 28%	<0.1%	<0.1%	<0.1%	• Dry smoothness and a light, silky, non-greasy skin feel • Soft focus, imperfections masking • Sebum absorption
DOWSIL™ EL-9081 Silicone Elastomer Blend	Dimethicone (and) Dimethicone/ Vinyl Dimethicone Crosspolymer	Dimethicone (2 cSt)	Volatile	250,000 to 500,000 cP	13.55% to 15.05%	<0.1%	<0.1%	<0.1%	• Smooth feel • Improved organic compatibility • Non-balling • Viscosity builder with lower use dosage • Low color and odor • High transparency
DOWSIL™ 9041 Silicone Elastomer Blend	Dimethicone (and) Dimethicone Crosspolymer	Dimethicone (5 cSt)	Non-volatile	300,000 to 500,000 cP	N/A	<1%	>1%	<1%	• Long lasting skin feel • Typical elastomer content 14% • Oil phase thickener
DOWSIL™ EL-9241 DM Silicone Elastomer Blend	Dimethicone (and) Dimethicone Crosspolymer	Dimethicone (5 cSt)	Non-volatile	300,000 to 500,000 cP	N/A	<0.1%	<0.1%	<1%	• Long lasting skin feel • Typical elastomer content 15-16% • Oil phase thickener
DOWSIL™ EL-9341 Silicone Elastomer Blend	Dimethicone (and) Dimethicone Crosspolymer	Dimethicone (6cSt)	Non-volatile	300,000 to 500,000 cP	N/A	<0.1%	<0.1%	<0.1%	• Long lasting skin feel • Typical elastomer content 15-16% • Oil phase thickener
DOWSIL™ EL-8040 ID Silicone Organic Blend	Isododecane (and) Dimethicone Crosspolymer	Isododecane	Volatile	300,000 to 550,000 cP	15.25% to 16.75%	<1%	<1%	<1%	• Elastomer feel with organic carrier • Low transfer in color cosmetic formulations
DOWSIL™ EL-8048 ID Silicone Organic Blend	Isododecane (and) Dimethicone Crosspolymer	Isododecane	Volatile	200,000 to 400,000 cP	13.50% to 16.50%	<0.1%	<0.1%	<0.1%	• Elastomer feel with organic carrier • Low transfer in color cosmetic formulations
DOWSIL™ EL-TIPS Silicone Elastomer Blend	C13-15 Alkane (and) Dimethicone/ Vinyl Dimethicone Crosspolymer	C13-15 Alkane	Non-volatile	250,000 to 550,000 cP	N/A	<0.1%	<0.1%	<0.1%	• Smooth feel in formulation • Typical elastomer content is ~26.5% • Blurring effect on skin • Carrier origin sugar cane source (Biofermentation) • 0.7 natural origin index per ISO-16128-2 • High transparency • A good choice for high natural content formulations
DOWSIL™ EL-9400 Hybrid Elastomer Blend	C9-12 Alkane (and) Bis-(Dimethylvinylsiloxy) Poly(Propanediol Dimer Dilinoleate)/Dimethicone Crosspolymer	C9-12 Alkane	Volatile	>1,000,000 cP	17.5% to 19.5%	<0.1%	<0.1%	<0.1%	• Smooth , enveloping and comfort feel • Blurring effect on skin • Biodegradable carrier • 97% bio-based carbon content • 0.86 natural origin index per ISO-16128-2 • A good choice for high natural content formulations • Organic compatibility • Skin Microbiome-friendly

These are typical properties not to be construed as specifications.

N/A: Not applicable

*SPM: Synthetic Polymer Microparticle based on Annex XVII to Regulation (Europe Commission) No 1907/2006 amendment published on September 25, 2023, COMMISSION REGULATION (Europe Union) 2023/2055

Silicone Organic Elastomer Blends (SOEB): Oil dispersible gels with enhanced organic compatibilty

Trade name	INCI name	Carrier fluid	Carrier volatility	Viscosity	NVC	Residual			Features
						D4	D5	D6	
DOWSIL™ EL-8050 ID Silicone Organic Elastomer Blend (SOEB)	Isododecane (and) Dimethicone/ Bis-Isobutyl PPG-20 Crosspolymer	Isododecane	Volatile	350,000 to 575,000 cP	14.25% to 15.75%	<0.1%	<0.1%	<0.1%	• Organic compatibility • Ability to create clear anhydrous systems • Oil phase thickener • Sensory threshold: 5% for both O/W and W/O • Transfer resistance • Mattifying
DOWSIL™ EL-8051 IN Silicone Organic Elastomer Blend (SOEB)	Isodecyl Neopentanoate (and) Dimethicone/ Bis-Isobutyl PPG-20 Crosspolymer	Isodecyl Neopentanoate	Non-volatile	350,000 to 575,000 cP	N/A	<0.1%	<0.1%	<0.1%	• Organic compatibility • Typical elastomer content is 15% • Ability to create clear anhydrous systems • Oil phase thickener • Sensory threshold: 8% for O/W and 5% for W/O • Improves color intensity in color cosmetics • Mattifying
DOWSIL™ EL-8052 IH Silicone Organic Elastomer Blend (SOEB)	Isohexadecane (and) Dimethicone/ Bis-Isobutyl PPG-20 Crosspolymer	Isohexadecane	Volatile	350,000 to 575,000 cP	16% to 17.5%	<0.1%	<0.1%	<0.1%	• Organic compatibility • Offers dry smoothness and light, silky, lubricated skin feel • Ability to create clear anhydrous systems • Oil phase thickener • Mattifying

These are typical properties not to be construed as specifications.
N/A: Not applicable

Hydrophilic elastomer blend

Trade name	INCI name	Carrier fluid	Carrier volatility	Viscosity	NVC	Residual			Features
						D4	D5	D6	
DOWSIL™ EL-7040 Hydro Elastomer Blend	Caprylyl Methicone (and) PEG-12 Dimethicone/ PPG-20 Crosspolymer	Caprylyl Methicone	Volatile	275,000 to 995,000 cP	17.5% to 19.5%	<0.1%	<0.1%	<0.1%	• Ability to incorporate water and polar materials • Compatibility with polar and organic materials • Smooth, spreadable, non-tacky skin feel • Ability to create fast breaking emulsions that offer refreshing burst of water to skin • Cold processing • Can incorporate both hydrophilic and lipophilic actives • Ability to create clear systems • Oil phase thickener

These are typical properties not to be construed as specifications.

ADVANCING to NET ZERO with Dow Silicone Elastomer Blends



Carbon-neutral silicone elastomer blends

Our DOWSIL™ Elastomer Blends, as part of Dow's Decarbia™ portfolio of reduced carbon materials, are a result of decarbonizing our silicon metal feedstocks. Dow Consumer Solutions has a fully integrated supply chain that gives us a distinct advantage in silicone production. We optimize every step, from raw materials to finished formulations. Our DOWSIL™ Elastomer Blends, which are part of Dow's Decarbia™ portfolio, result from decarbonizing our silicon metal feedstocks, the most carbon-intensive part of silicone production. By investing in this process and offsetting remaining emissions, we offer carbon-neutral silicones for personal care, verified by PAS 2060.

Decarbia™
Advancing carbon neutrality with Dow

Trade name	INCI name	Carrier fluid	Carrier volatility	Viscosity	NVC	Residual			Features
						D4	D5	D6	
DOWSIL™ EL-9341 DEC Silicone Elastomer Blend	Dimethicone (and) Dimethicone Crosspolymer	Dimethicone (6cSt)	Non-volatile	300,000 to 500,000 cP	N/A	<0.1%	<0.1%	<0.1%	• Silicone elastomer gel featuring externally verified carbon neutrality* with carbon insets from Dow's value chain and reduced carbon footprint • Long lasting skin feel • Typical elastomer content 15-16% • Oil phase thickener
DOWSIL™ EL-8050 ID DEC Silicone Organic Elastomer Blend (SOEB)	Isododecane (and) Dimethicone/ Bis-Isobutyl PPG-20 Crosspolymer	Isododecane	Volatile	350,000 to 575,000 cP	14.25% to 15.75%	<0.1%	<0.1%	<0.1%	• Silicone elastomer gel featuring externally verified carbon neutrality* with carbon insets from Dow's value chain and reduced carbon footprint • Organic compatibility • Ability to create clear anhydrous systems • Oil phase thickener • Sensory threshold: 5% for both O/W and W/O • Transfer resistance • Mattifying

*According to PAS 20260 carbon-neutrality standard which is replaced by ISO 14068-1. These are typical properties not to be construed as specifications.

These 2 grades exhibit the same benefits as their equivalent DOWSIL™ EL-9341 Silicone Elastomer Blend, and DOWSIL™ EL-8050 ID Silicone Organic Elastomer Blend, and therefore do not require any changes in formulation processes.

Silicone elastomer powders: dry, oil-dispersible powders and water-dispersible powder

Trade name	INCI name	Particle size	Residual			Features
			D4	D5	D6	
DOWSIL™ EP-9215 Cosmetic Powder*	Dimethicone/Vinyl Dimethicone Crosspolymer	2-7 microns	<0.1%	<0.1%	<0.1%	• Oil and sebum absorption • Mattifying • Powder hardness = 60
DOWSIL™ EP-9289 LL Cosmetic Powder*	Dimethicone/Vinyl Dimethicone Crosspolymer (and) Lauroyl Lysine	NT	<0.1%	<0.1%	<0.1%	• Powder compaction • Sebum absorption
DOWSIL™ 9506 Powder*	Dimethicone/Vinyl Dimethicone Crosspolymer	1-6 microns	<0.1%	<0.1%	<0.1%	• Oil and sebum absorption • Oil phase thickener • Powder hardness = 30
DOWSIL™ EP-9608 Cosmetic Powder*	Dimethicone Crosspolymer (and) Dimethicone	1-8 microns	<0.1%	<0.1%	<0.1%	• Oil-loaded crosslinked polymer offers rich sensory with low agglomeration • Hides pores and offers excellent affinity to skin • Lower particle hardness (7) than other e-powders
DOWSIL™ EP-9610 Cosmetic Powder*	Dimethicone Crosspolymer	1-8 microns	<0.1%	<0.1%	<0.1%	• Offers unique smooth, bouncy and silky feel • Oil/sebum absorption • Optical mattifying effect • Lower particle hardness (10) than other e-powders
DOWSIL™ 9701 Cosmetic Powder*	Dimethicone/Vinyl Dimethicone Crosspolymer (and) Silica	1-10 microns	<0.1%	<0.1%	<0.1%	• Wrinkle masking • Sebum absorption • Ease of use: free-flowing, low agglomeration • Oil phase thickener
DOWSIL™ EP-9801 Hydro Cosmetic Powder*	Dimethicone/Vinyl Dimethicone Crosspolymer (and) Butylene Glycol (and) Silica	3-10 microns	<0.1%	<0.1%	<0.1%	• Water dispersible • Wrinkle masking • Sebum Absorption • Ease of use: free-flowing, low agglomeration

These are typical properties not to be construed as specifications.

*SPM: Synthetic Polymer Microparticle based on Annex XVII to Regulation (Europe Commission) No 1907/2006 amendment published on September 25, 2023, COMMISSION REGULATION (Europe Union) 2023/2055

Organic compatibility

Test material	DOWSIL™ 9045 Silicone Elastomer Blend	DOWSIL™ 9081 Silicone Elastomer Blend	DOWSIL™ EL-8050 ID Silicone Organic Elastomer Blend	DOWSIL™ EL-7040 Hydro Elastomer Blend
Ethylhexylmethoxy Cinnamate (OMC)	4	NC	9	10
Ethylhexyl Salicylate (OS)	9	8	9	10
C12-15 Alkyl Benzoate	NC	7	9	10
Caprylic/Capric Triglyceride	NC	3	9	10
Sunflower oil	2	NC	3	3
Squalane	2	7	2	NC
PPG-15 Stearyl Ether	2	NC	7	8
Mineral oil	3	7	3	NC
Ethanol	1	NC	9	10

These are typical properties not to be construed as specifications.

Clarity — color coding

Clear
Slight haze
Hazy
Cloudy
Opaque
Not compatible

Viscosity — number scale

1 = Liquid ~245 Fluid
3 = Pourable ~10M cst PDMS
5 = Pourable ~60M cst PDMS
9 = Barely pourable when inverted ~300M cst PDMS
10 = Does not flow when inverted
NC = Not compatible; Viscosity not measured

Compatibility evaluated using 75/25 blend of elastomer/solvent

Paired comparison to DOWSIL™ 9045 Silicone Elastomer Blend

	Dow product name	DOWSIL™ 9040 Silicone Elastomer Blend	DOWSIL™ 9041 Silicone Elastomer Blend	DOWSIL™ FB-9586 Silicone Elastomer Blend	DOWSIL™ EL-8040 ID Silicone Organic Blend	DOWSIL™ EL-9140 DM Silicone Elastomer Blend	DOWSIL™ EL-9240 Silicone Elastomer Blend	DOWSIL™ EL-8050 ID Silicone Organic Elastomer Blend	DOWSIL™ EL-8051 IN Silicone Organic Elastomer Blend	DOWSIL™ EL-8052 IH Silicone Organic Elastomer Blend	DOWSIL™ EL-7040 Hydro Elastomer Blend
Before absorption	Wetness	-		+							
	Spreadability			+			+				
	Tackiness	-		-	-	NT	-				
	Absorbancy	+		+		NT					
After absorption	Gloss		+							+	
	Film residue	-	+			+			+		
	Greasiness	-	+	-					+		+
	Tackiness	-		-		-					
	Smoothness	+	-	+	-		+				
	Slipperiness	+		+	-	+	+				+
	Powdery feel	+	-		-	+					

These are typical properties not to be construed as specifications.
NT: Not tested or identified

No difference	Different at 95%
Different at 99%	Different at 99.9%

Example: DOWSIL™ 9040 Silicone Elastomer Blend is less tacky (different at 99.9%) than DOWSIL™ 9045 Silicone Elastomer Blend.

Potential silicone diluents for elastomer gels

Product	INCI name	Viscosity (cSt)	Specific gravity	Refractive index	Flash point (°C)
XIAMETER™ PMX-0245 Cyclopentasiloxane	Cyclopentasiloxane	4	0.95	1.397	77
XIAMETER™ PMX-200 Silicone Fluid 1.5 cSt	Dimethicone	1.5	0.85	1.387	57
XIAMETER™ PMX-200 Silicone Fluid 2 cSt	Dimethicone	2	0.87	1.39	87
XIAMETER™ PMX-200 Silicone Fluid 5 cSt	Dimethicone	5	0.91	1.397	134
DOWSIL™ FZ-3196 Fluid	Caprylyl Methicone	2-4	0.83	1.413	110

These are typical properties not to be construed as specifications.

Need more information?

Dow has extensive experience with beauty and personal care solutions. Leverage our experience to help you determine which materials are best suited to your application. Simply visit **dow.com/personalcare** to learn how we can help you bring performance and processability to your products.

From North America

Toll-free	+ 800 447 4369
Toll call	+ 989 832 1542
Fax	+ 989 832 1465

From Europe, India, Africa and the Middle East

Toll-free*	+ 800 3 694 6367
Toll call	+ 32 3 450 2240
Toll-free for Italy	+ 800 783 825
Toll-free for South Africa	+ 800 99 5078
Fax	+ 32 3 450 2815

From Asia Pacific

Toll-free**	+ 800 7776 7776
Toll call	+ 60 3 7965 5392
Toll-free fax**	+ 800 7779 7779
Toll fax	+ 60 3 7958 5598

From Latin America

Toll call	+ 55 11 5188 9000
Fax	+ 55 11 5188 9887

dow.com/personalcare

* Toll-free from Austria, Belgium, Denmark, Finland (prefix 990), France, Germany, Hungary, Ireland, The Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom

** Toll-free from Korea, Japan, China, Taiwan, Hong Kong, Thailand, Malaysia, Singapore, Philippines, Australia, and New Zealand

Images: dow_53636543755, dow_82894176601, dow_73904333564, dow_86248832862, dow_56645771792

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

© 2026 The Dow Chemical Company. All rights reserved.

2000024824-1580700

Form No. 27-1413-01-1026 S2D