

Dow hair and skin care

Selection guide



How to use this guide

To use the following tables, simply select an application and review the benefits most important for your formulation. Then select the appropriate Dow solution. Alternatively, if you want an even quicker and easier answer, refer to the table summary of product families for hair and skin care.

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Silky smoothness. Pigment dispersion. Shine. Soft, smooth feel. Combability. These are just some of the qualities your customers are looking for from your hair and/or skin care products. The properties of silicones make them well suited to provide many of these qualities. The DOWSIL™ brand can provide you with a dependable supply of high-quality, innovative silicone hair and skin care products.

Solutions that create beauty with impact

Dow's strength in silicon-based technology and our more than 30 years of experience in the beauty and personal care industry have allowed us to develop truly innovative solutions that can help you solve your toughest formulation challenges and create

increasingly unique, high-value products for your customers. We know, too, that you want your products to stand out in today's fiercely competitive market. Our know-how can help you achieve that goal. With our silicone solutions, we can help you enhance – and even expand – your current product lineup.

For instance, our silicone technologies for hair and skin care products provide sensory characteristics you can measure and a difference your customers will notice. Our solutions can help you deliver other unique benefits as well – and develop surprisingly fresh new categories within these product families. Let us show you how.

Hair care solutions

When it comes to hair care formulations, your customers want increasingly new and improved products for cleaning and conditioning their hair. Plus, products must be tailored for different hair types and hairstyles as well as for different age groups, ethnicities, cultures, climates and desires.

Shampoos – With solutions from Dow, you can create shampoos that make both wet and dry combing easier. You can respond to your customers' desire for shampoos that make hair soft, silky and smooth to the touch. And, you can provide shampoos that protect color applications and counteract damage caused by overuse of hair dryers and curling irons.

Conditioners – Increasingly, your customers seek conditioners that moisturize, manage and style without leaving their hair heavy, limp, dull or greasy. They expect conditioners that detangle and improve hair softness and smoothness, both during rinsing and after drying. Plus, they want conditioners that protect color applications, repair damaged hair and enhance the shininess and manageability of their hair. Dow offers you the solution a series of lightweight rinse-off and leave-in conditioning materials that can help you meet these needs – and more.



DOWSIL™ Brand

Look to Dow's application expertise for personalized service and support:

- For new materials and sample formulations during product development
- For custom or unique formulations
- For product and process assistance and troubleshooting

Skin care solutions

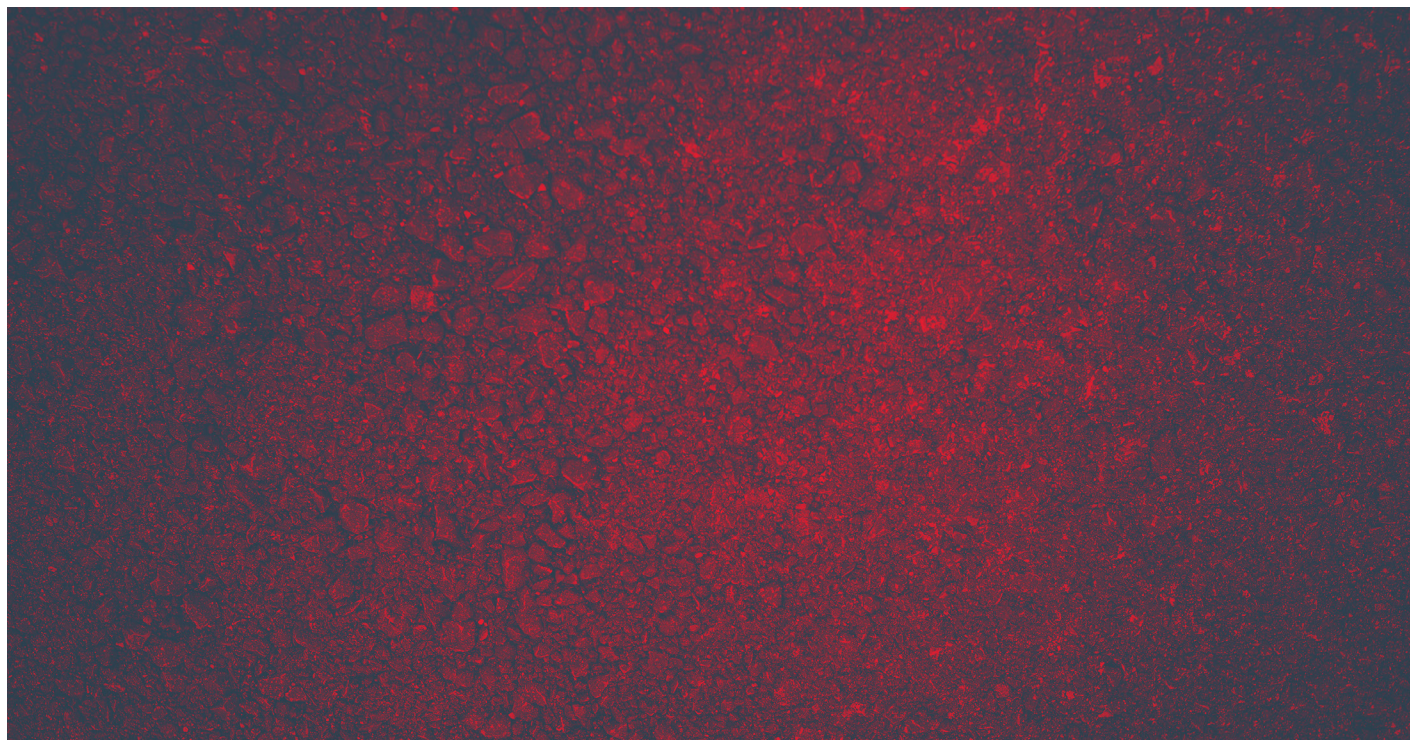
Today's consumers also expect increasingly sophisticated products that answer all their perceived skin care needs. Dow's expertise in this market can provide you with unique knowledge and capabilities. Our understanding of emerging technologies, coupled with our experience in the personal care industry, enable us to offer innovative solutions that will help you enhance and expand your customers' current skin care product selections.

Skin care, color cosmetics, and face and shower products – With solutions from Dow, you can provide products that spread easily for smoother, easier application, with even pigment dispersion – products that retain their features and last longer than others currently on the market. Dow can help you minimize the tacky or greasy feel of other ingredients and create products that are light, soft and exhibit a silky feel, both during and after application.

We're here to serve you

Whether you seek industry-leading innovation or greater cost efficiency, Dow can help. DOWSIL™ solutions deliver specialty materials, collaborative problem-solving and innovation support tailored to your needs. See details at www.dow.com.

Learn how Dow can help you surpass the limits of current technology to develop beauty and personal care products with unique benefits and market-leading capabilities. Find the best solution to meet these and many other key needs. Consult the selection tables on the subsequent pages. Contact us for technical support.



Skin care and color cosmetics

	Smooth feel/ emolliency	Improved spreading	Reduced greasiness	Non-occlusive	Moisturization	Quick absorption	Sebum absorption	Thickening/rheology modification	Long lasting/ substantivity	Film barrier properties	Anti-pigment transfer	SPF enhancement
PHYSICAL OR SENSORY ATTRIBUTE												
SILICONE FLUIDS												
Volatile caprylyl methicone												
DOWSIL™ FZ-3196 Fluid	●	●	●	●		●						
Specials												
DOWSIL™ 556 Cosmetic Grade Fluid	●	●	●	●					●	●		
DOWSIL™ 593 Fluid				●					●	●		
DOWSIL™ RSN-0749 Resin				●					●●	●	●●	
DOWSIL™ MQ-1600 Resin				●					●●	●	●●	●
DOWSIL™ MQ-1640 Flake Resin				●					●●	●	●	●●
DOWSIL™ 670 Fluid				●					●●	●	●	●
DOWSIL™ 680 ID Fluid									●●	●●	●	
DOWSIL™ 5562 Carbinol Fluid	●	●	●	●	●							●
DOWSIL™ FA 4001 CM Silicone Acrylate				●			●		●●	●●	●●	
DOWSIL™ FA 4002 ID Silicone Acrylate				●			●		●●	●●	●●	
DOWSIL™ VM-2270 Aerogel Fine Particles							●●	●●				
Volatile dimethyl												
XIAMETER™ PMX-0245 Cyclopentasiloxane, XIAMETER™ PMX-0246 Cyclohexasiloxane		●	●	●		●●						
XIAMETER™ PMX-200 Silicone Fluid 1.0-2.0 cSt		●	●	●		●●						
XIAMETER™ PMX-1184 Silicone Fluid		●	●	●		●●						
Low and medium viscosity												
XIAMETER™ PMX-200 Silicone Fluid 5, 6, 10, 20 cSt	●	●	●	●		●						
XIAMETER™ PMX-200 Silicone Fluid 50-1,000 cSt	●	●	●	●								
SILICONE POLYETHERS												
DOWSIL™ 2501 Cosmetic Wax	●	●	●		●							
SILICONE EMULSIFIERS												
DOWSIL™ 5200 Formulation Aid	●	●							●●	●●		
DOWSIL™ ES-5300 Formulation Aid	●●	●						●				
DOWSIL™ ES-5612 Formulation Aid								●	●●			
DOWSIL™ ES-5226 DM Formulation Aid								●	●●			
DOWSIL™ ES-5227 DM Formulation Aid								●	●			
DOWSIL™ 5225C Formulation Aid		●	●	●		●				●		
DOWSIL™ 9011 Silicone Elastomer Blend		●	●	●		●						
DOWSIL™ BY 11-030 Emulsifier/Gelling Agent		●	●	●				●				
DOWSIL™ BY 25-337		●	●	●				●				
DOWSIL™ FZ-2233	●			●					●	●		
XIAMETER™ OFX-5329 Fluid		●				●						
ACULYN™ 2051 Rheology Modifier		●	●					●●				
SILICONE GUM BLENDS												
Gum in cyclics												
XIAMETER™ PMX-1411 Fluid, XIAMETER™ PMX-1501 Fluid	●	●	●	●		●			●●	●		

● = Good fit

●● = Excellent fit

Skin care and color cosmetics

	Smooth feel/ emolliency	Dry, powdery feel	Improved spreading	Reduced greasiness	Non-occlusive	Moisturization	Quick absorption	Sebum absorption	Thickening/rheology modification	Long lasting/ substantivity	Film barrier properties	Anti-pigment transfer	SPF enhancement
PHYSICAL OR SENSORY ATTRIBUTE													
SILICONE GUM BLENDS (continued)													
Gum in fluids													
XIAMETER™ PMX-1403 Fluid, XIAMETER™ PMX-1503 Fluid	●	●	●	●					●●	●			
DOWSIL™ CB-1556 Fluid	●	●	●	●					●●	●			
Gum in isoparaffin													
DOWSIL™ BY 25-320	●		●	●	●					●	●		
SILICONE METHYL SILOXANES													
DOWSIL™ 2502 Cosmetic Fluid	●					●				●●	●		●●
DOWSIL™ 2503 Cosmetic Wax	●		●			●			●	●	●●		●●
DOWSIL™ AMS-C30 Wax	●					●●			●●				●
DOWSIL™ 580 Wax	●		●						●				
DOWSIL™ SW-8005 C30 Resin Wax	●								●●	●		●	
SILICONE EMULSIONS													
DOWSIL™ HMW 2220 Non-Ionic Emulsion	●				●		●		●●	●●	●●		
DOWSIL™ 9509 Silicone Elastomer Suspension		●●			●			●●	●				
DOWSIL™ 7-3101 Elastomer Blend HIP Emulsion	●	●		●	●								
SILICONE ELASTOMERS													
XIAMETER™ PMX-9027 Fluid	●	●	●	●	●		●				●		
DOWSIL™ 9040 Silicone Elastomer Blend	●	●●		●	●				●●				●
DOWSIL™ 9041 Silicone Elastomer Blend	●			●	●				●				
DOWSIL™ 9045 Silicone Elastomer Blend	●	●		●	●				●●				
DOWSIL™ 9046 Silicone Elastomer Blend	●	●		●		●			●	●	●		
DOWSIL™ EL-9240 Silicone Elastomer Blend	●	●		●			●		●●				
DOWSIL™ 9546 Silicone Elastomer Blend	●	●●		●	●				●●				
DOWSIL™ FB-9586 Silicone Elastomer Blend ¹	●	●		●	●				●	●			
DOWSIL™ 2-3040 Blend ¹	●	●		●					●				
DOWSIL™ 9506 Powder		●●		●	●			●	●●				
DOWSIL™ 9701 Cosmetic Powder		●●		●	●			●	●●				
DOWSIL™ EP-9801 Hydro Cosmetic Powder		●●		●	●			●					
DOWSIL™ EL-8040 ID Silicone Organic 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	●	●		●					●				
CUSTOM BLENDS													
XIAMETER™ PMX-3021 Fluid ¹	●		●	●		●	●						
XIAMETER™ PMX-3031 Fluid ¹	●			●		●		●			●		
XIAMETER™ PMX-3050 Fluid ¹	●			●		●			●		●		

¹ Not sold in China.

● = Good fit ●● = Excellent fit

Skin care and color cosmetics

- Improve spreadability for easier application
- Provide a breathable, wash-off-resistant barrier that improves the lasting power and effectiveness of skin protectants
- Reduce the tacky or greasy feel of other ingredients
- Create a light, nongreasy, soft and silky feel
- Promote even pigment dispersion

Skin care – Wash and shower

	Smooth feel	After-feel	Foam stabilization	Soft feel
PHYSICAL OR SENSORY ATTRIBUTE				
SILICONE GUM BLENDS				
Gum in cyclics				
XIAMETER™ PMX-1411 Fluid	●			●
XIAMETER™ PMX-1501 Fluid	●			●
Gum in fluids				
XIAMETER™ PMX-1403 Fluid	●			●
XIAMETER™ PMX-1503 Fluid	●			●
Custom blend fluid				
XIAMETER™ PMX-3031 Fluid	●	●		
SILICONE POLYETHERS				
XIAMETER™ OFX-0193 Fluid			●	●
XIAMETER™ OFX-5324 Fluid			●	●
XIAMETER™ OFX-5330 Fluid			●	●
DOWSIL™ 2501 Cosmetic Wax			●●	●
ALKYL METHYL SILOXANES				
DOWSIL™ 2502 Cosmetic Fluid	●	●	●●	●
DOWSIL™ 2503 Cosmetic Wax	●	●		●
DOWSIL™ AMS-C30 Wax	●	●●		●
SILICONE EMULSIONS				
XIAMETER™ MEM-1785 Emulsion ¹	●		●	●
XIAMETER™ MEM-1352 Emulsion	●		●	●
DOWSIL™ HMW 2220 Non-Ionic Emulsion	●●		●	●
DOWSIL™ 9509 Silicone Elastomer Suspension	●●		●	
Low and Medium Viscosity				
XIAMETER™ PMX-200 Silicone Fluid 1,000-60,000 cSt	●			●

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Skin care – Wash and shower

- Provide a soft, silky feel during and after application
- In soap bars, silicones provide less weight loss and less mushiness

Hair care – Shampoo

Hair care – Shampoo	Combing dry	Combing wet	Wet slip feel	Soft feel	Transparent system	Color protection	Thermal protection	Reduce flyaway	Shine	Bodifying volume
	PHYSICAL OR SENSORY ATTRIBUTE									
SILICONE FLUIDS										
Amino fluid										
DOWSIL™ AP-8087 Fluid		●	●	●			●	●	●	
DOWSIL™ 8500 Conditioning Agent		●	●	●	●		●	●		
DOWSIL™ 2-8566 Amino Fluid		●	●	●	●		●	●		
High viscosity										
XIAMETER™ PMX-200 Silicone Fluid 60,000 cSt, 100,000 cSt	●								●	
XIAMETER™ PMX-200 Silicone Fluid 300,000 cSt, 500,000 cSt	●●								●	
SILICONE POLYETHERS										
XIAMETER™ OFX-0193 Fluid		●	●		●					
XIAMETER™ OFX-5324 Fluid		●	●		●			●		●
XIAMETER™ OFX-5330 Fluid		●	●		●			●	●	●
SILICONE EMULSIONS										
Amine										
XIAMETER™ MEM-0939 Emulsion, XIAMETER™ MEM-0949 Emulsion, XIAMETER™ MEM-0959 Emulsion	●	●	●	●		●	●	●	●	
XIAMETER™ MEM-8168 Emulsion		●	●	●	●	●		●	●	
XIAMETER™ MEM-8177 Emulsion		●		●	●	●		●	●	
XIAMETER™ MEM-8194 Emulsion		●	●	●	●	●	●	●	●	
XIAMETER™ MEM-8299 Emulsion	●	●		●				●		
DOWSIL™ 5-7113 Silicone Quat Microemulsion		●	●	●	●		●	●	●	●
DOWSIL™ CE-1689 Smoothing Emulsion	●●	●●	●	●		●				
DOWSIL™ CE-8170 AF Microemulsion	●	●		●	●			●	●	●
DOWSIL™ CE 8401 Emulsion ¹		●●	●●	●				●	●	
DOWSIL™ CE- 8411 Smooth Plus Emulsion	●	●●	●●	●						●
Dimethyl										
XIAMETER™ MEM-1352 Emulsion	●								●	
XIAMETER™ MEM-1391 Emulsion		●	●		●				●	
XIAMETER™ MEM-1691 Emulsion		●		●						
DOWSIL™ CE-1870 POE Emulsion	●	●●	●			●			●	
XIAMETER™ MEM-7138 Emulsion	●	●	●						●	
XIAMETER™ MEM-1785 Emulsion ¹	●●	●	●	●						
XIAMETER™ MEM-1788 Emulsion ¹	●●	●	●	●						
DOWSIL™ HMW 2220 Non-Ionic Emulsion	●●								●	
XIAMETER™ MEM-1491 Emulsion ¹	●								●	
Silicone elastomer										
DOWSIL™ 9509 Silicone Elastomer Suspension	●									●●
DOWSIL™ CE-7750 Velvety Emulsion	●			●●						
DOWSIL™ 7-3101 Elastomer Blend HIP Emulsion	●									●

¹ Not sold in China.

● = Good fit

●● = Excellent fit

Hair care – Shampoo

- Improve wet and dry combing
- Provide softness and smoothness
- Provide color protection
- Reduce heat damage from hair dryers and curling irons



Hair care – Rinse-off conditioner

	Combing dry	Combing wet	Wet slip feel	Soft feel	Color protection	Thermal protection	Reduce flyaway	Shine	Bodifying volume	Long lasting
PHYSICAL OR SENSORY ATTRIBUTE										
SILICONE FLUIDS										
Volatile caprylyl										
DOWSIL™ FZ-3196 Fluid				●						
Amino fluid										
DOWSIL™ AP-8087 Fluid	●	●●	●●	●	●	●	●	●		●
DOWSIL™ 8500 Conditioning Agent	●	●●	●	●	●	●	●			●
DOWSIL™ 2-8566 Amino Fluid	●	●●	●	●	●	●	●			●
Specials										
DOWSIL™ 556 Cosmetic Grade Fluid		●						●		
DOWSIL™ RSN-0749 Resin							●	●		●
DOWSIL™ 593 Fluid							●	●		●
DOWSIL™ 2-2078 Fluid					●	●	●	●		●
Volatile dimethyl										
XIAMETER™ PMX-0245 Cyclopentasiloxane, XIAMETER™ PMX-0246 Cyclopentasiloxane		●	●							
Low and medium viscosity										
XIAMETER™ PMX-200 Silicone Fluid 5, 10, 20 cSt		●	●					●		
XIAMETER™ PMX-200 Silicone Fluid 50, 100, 200, 350, 500, 1000 cSt	●							●		
High-viscosity fluid blends										
XIAMETER™ PMX-9111 Fluid	●	●●	●●					●		
SILICONE GUM BLENDS										
Gum in cyclics										
XIAMETER™ PMX-1401 Fluid, XIAMETER™ PMX-1411 Fluid, XIAMETER™ PMX-1501 Fluid	●	●	●					●		
Gum in fluids										
XIAMETER™ PMX-1403 Fluid, XIAMETER™ PMX-1503 Fluid	●●	●●		●●				●●		
DOWSIL™ CB-1556 Fluid	●							●●		
Gum in isoparaffin										
DOWSIL™ BY 25-320	●							●		
SILICONE EMULSIONS										
Amine										
XIAMETER™ MEM-0939 Emulsion, XIAMETER™ MEM-0949 Emulsion, XIAMETER™ MEM-0959 Emulsion	●	●	●	●	●	●	●	●		●
XIAMETER™ MEM-8168 Emulsion	●	●	●	●	●		●	●		●
XIAMETER™ MEM-8177 Emulsion		●		●	●		●	●		
XIAMETER™ MEM-8194 Emulsion	●	●	●	●	●	●	●	●		●
XIAMETER™ MEM-8299 Emulsion	●			●			●			
DOWSIL™ 5-7113 Silicone Quat Microemulsion	●	●	●	●	●	●	●	●	●	●
DOWSIL™ CE-1689 Smoothing Emulsion	●●			●						
DOWSIL™ CE-7080 Smart Style	●●	●●			●●					
DOWSIL™ CE-8170 AF Microemulsion	●	●		●			●	●	●	
DOWSIL™ CE 8401 Emulsion ¹	●	●	●	●	●		●	●		●
DOWSIL™ CE 8411 Smooth Plus Emulsion	●	●●	●●	●	●			●	●	

¹ Not sold in China.

● = Good fit ●● = Excellent fit

Hair care – Rinse-off conditioner

- Improve hair softness and smoothness during rinse and after dry
- Provide color protection
- Enhance hair shine

Hair care – Rinse-off conditioner (continued)

Hair care – Rinse-off conditioner (continued)

	Combing dry	Combing wet	Wet slip feel	Soft feel	Color protection	Thermal protection	Reduce flyaway	Shine	Bodifying volume	Long lasting
	PHYSICAL OR SENSORY ATTRIBUTE									
SILICONE EMULSIONS										
Dimethyl										
XIAMETER™ MEM-1352 Emulsion	●							●		
XIAMETER™ MEM-1391 Emulsion	●							●		
XIAMETER™ MEM-1691 Emulsion		●		●						
DOWSIL™ CE-1870 POE Emulsion	●				●			●		
XIAMETER™ MEM-7138 Emulsion	●				●			●		
XIAMETER™ MEM-1785 Emulsion ¹	●	●		●						
XIAMETER™ MEM-1788 Emulsion ¹	●	●		●						
DOWSIL™ HMW 2220 Non-Ionic Emulsion	●							●		
XIAMETER™ MEM-1491 Emulsion ¹	●							●		
SILICONE EMULSIONS (continued)										
Silicone elastomer										
DOWSIL™ 9509 Silicone Elastomer Suspension	●								●●	
DOWSIL™ CE-7750 Velvety Emulsion	●			●●						
XIAMETER™ PMX-9027 Silicone Elastomer Blend	●						●	●		
Silicone custom blend fluids										
XIAMETER™ PMX-3021 Fluid ¹		●	●							
XIAMETER™ PMX-3031 Fluid ¹	●●	●	●					●		
XIAMETER™ PMX-3050 Fluid ¹	●●	●	●					●		

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Hair care – Leave-in conditioner

Hair care – Leave-in conditioner	Soft feel	Color protection	Thermal protection	Reduced greasiness	Shine	Bodifying volume	Repair	Rheology modification	Styling effect	Resin plasticizer	Transparent water system	Transparent oil system
	PHYSICAL OR SENSORY ATTRIBUTE											
SILICONE FLUIDS												
Volatile caprylyl												
DOWSIL™ FZ-3196 Fluid				●	●							●
Amino fluid												
DOWSIL™ AP-8087 Fluid	●	●	●		●							●
DOWSIL™ 8500 Conditioning Agent	●	●	●									●
DOWSIL™ 2-8566 Amino Fluid	●	●	●									●
Specials												
DOWSIL™ 556 Cosmetic Grade Fluid				●	●●							●
DOWSIL™ RSN-0749 Resin					●				●			●
DOWSIL™ 593 Fluid					●				●			●
DOWSIL™ 2-2078 Fluid			●		●●							
Volatile dimethyl												
XIAMETER™ PMX-0245 Cyclopentasiloxane, XIAMETER™ PMX-0246 Cyclopentasiloxane				●	●							●
Low and medium viscosity												
XIAMETER™ PMX-200 Silicone Fluid 5, 10, 20 cSt				●	●							●
XIAMETER™ PMX-200 Silicone Fluid 50, 100, 200, 350, 500, 1000 cSt				●	●							●
High-viscosity fluid blends												
XIAMETER™ PMX-9111 Fluid					●							●

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Hair care – Leave-in conditioner (continued)

	Soft feel	Color protection	Thermal protection	Reduced greasiness	Shine	Bodifying volume	Repair	Rheology modification	Styling effect	Resin plasticizer	Transparent water system	Transparent oil system
PHYSICAL OR SENSORY ATTRIBUTE												
SILICONE POLYETHERS												
XIAMETER™ OFX-0193 Fluid					••					•	•	
XIAMETER™ OFX-5330 Fluid					••					•	•	
XIAMETER™ OFX-5324 Fluid										•	•	
SILICONE EMULSIFIERS												
ACULYN™ 2051 Rheology Modifier								••				
ALKYL METHYL SILOXANES												
DOWSIL™ 2502 Cosmetic Fluid								•				•
DOWSIL™ 2503 Cosmetic Wax				•				•				
DOWSIL™ AMS-C30 Wax								•				
DOWSIL™ SW-8005 C30 Resin Wax				•				•		•		
SILICONE GUM BLENDS												
Gum in cyclics												
XIAMETER™ PMX-1263 Fluid ¹ , XIAMETER™ PMX-1401 Fluid, XIAMETER™ PMX-1411 Fluid, XIAMETER™ PMX-1501 Fluid				•	•							•
Gum in fluids												
XIAMETER™ PMX-1403 Fluid, XIAMETER™ PMX-1503 Fluid	••				••							•
DOWSIL™ CB-1556 Fluid				•	••							•
Gum in isoparaffin												
DOWSIL™ BY 25-320				•	•							•
SILICONE EMULSIONS												
Amine												
XIAMETER™ MEM-0939 Emulsion, XIAMETER™ MEM-0949 Emulsion, XIAMETER™ MEM-0959 Emulsion	•											
XIAMETER™ MEM-8168 Emulsion	•	•			•						•	
XIAMETER™ MEM-8177 Emulsion	•	•			•						•	
XIAMETER™ MEM-8194 Emulsion	•	•	•		•						•	
XIAMETER™ MEM-8299 Emulsion	•											
DOWSIL™ 5-7113 Silicone Quat Microemulsion	•	•	•		•	•	••				•	
DOWSIL™ CE-7080 Smart Style							••					
DOWSIL™ CE-8170 AF Microemulsion	•				•	•					•	
DOWSIL™ CE 8401 Emulsion ¹	•	•			•							
DOWSIL™ CE 8411 Smooth Plus Emulsion	•	•			•							
Dimethyl												
XIAMETER™ MEM-7137 Emulsion		•			•							
XIAMETER™ MEM-7138 Emulsion	•				•							
DOWSIL™ HMW 2220 Non-Ionic Emulsion					•		••					
Silicone elastomers												
DOWSIL™ 9509 Silicone Elastomer Suspension						••		•				
DOWSIL™ CE-7750 Velvety Emulsion	••											
DOWSIL™ 7-3101 Elastomer Blend HIP Emulsion						•		•				
XIAMETER™ PMX-9027 Fluid	•				•							
DOWSIL™ 9041 Silicone Elastomer Blend						•		•				
DOWSIL™ 9045 Silicone Elastomer Blend						•		•				
Silicone custom blend fluids												
DOWSIL™ CB-3060 Fluid	•			•	•							•
XIAMETER™ PMX-3021 Fluid ¹	•			•	•							•
XIAMETER™ PMX-3031 Fluid ¹	•			•	•							•

¹ Not sold in China.

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Hair care – Leave-in conditioner

- Improve combability and manageability
- Enhance hair shine
- Repair hair damage
- Provide styling effect



Product families for hair and skin care

These values are not intended for use in preparing specifications.

Silicone fluids

DOWSIL™ product	INCI name	Viscosity, cSt	Specific gravity	Refractive index	Flash point, °C	Silicone, %
VOLATILE SILICONE FLUIDS						
DOWSIL™ FZ-3196 Fluid	Caprylyl Methicone	2.9	0.84	1.413	110	
SPECIALTY SILICONE FLUIDS						
DOWSIL™ 556 Cosmetic Grade Fluid	Phenyl Trimethicone	15-30	0.98	1.460	121	100
DOWSIL™ 2-2078 Fluid	Aminopropyl Phenyl Trimethicone	1,000-3,000	1.09	1.49-1.51		100
DOWSIL™ 593 Fluid	Dimethicone (and) Trimethylsiloxysilicate	400-1,000	1.03	1.408	200	33% resin
DOWSIL™ 670 Fluid	Cyclopentasiloxane (and) Polypropylsilsesquioxane	150-220	1.00	1.420	76	50% resin
DOWSIL™ 680 ID Fluid	Polypropylsilsesquioxane (and) Isododecane	500-1,200	1.01	1.436	52	72.5-77.5% resin
DOWSIL™ 5562 Carbinol Fluid	Bis-hydroxyethoxypropyl Dimethicone	30-60	0.98	1.410	> 78	100
DOWSIL™ RSN-0749 Resin	Cyclomethicone (and) Trimethylsiloxysilicate	200-700	1.05	1.406	76	50% resin
DOWSIL™ AP-8087 Fluid	Bis-Hydroxy/Methoxy Amodimethicone	3,000-4,500	0.98			100
DOWSIL™ 8500 Conditioning Agent	Bis (C13-15 Alkoxy) PG Amodimethicone	1,500-6,000	0.96			100
DOWSIL™ 2-8566 Amino Fluid	Amodimethicone	1,550-4,000	0.98			100

† Not sold in China.

● = Good fit ●● = Excellent fit

Silicone polyethers/emulsifiers

DOWSIL™ product	INCI name	Active, %	Diluent	Calculated HLB	Flash point, °C	Cloud, °C	Water solubility
DOWSIL™ 5200 Formulation Aid	Lauryl PEG/PPG-18/18 Methicone	100	None	2.2	77	-10	No
DOWSIL™ ES-5300 Formulation Aid	Lauryl PEG-10 Tris(trimethylsiloxy)silylethyl Dimethicone	100	None	3	> 100	N/A	No
DOWSIL™ 5225C Formulation Aid	Cyclopentasiloxane (and) PEG/PPG-18/18 Dimethicone	10.5	XIAMETER™ PMX-0245 Cyclopentasiloxane	1.7	76	Cloudy	No
DOWSIL™ ES-5612 Formulation Aid	PEG-10 Dimethicone	100	None	4			No
DOWSIL™ ES-5226 DM Formulation Aid	Dimethicone (and) PEG-/PPG-18/18 Dimethicone	37.5	XIAMETER™ PMX-200 Silicone Fluid (2 cSt)	2			No
DOWSIL™ ES-5227 DM Formulation Aid	Dimethicone (and) PEG/PPG-18/18 Dimethicone	25	XIAMETER™ PMX-200 Silicone Fluid (5 cSt)	2			No
DOWSIL™ 9011 Silicone Elastomer Blend	Cyclopentasiloxane (and) PEG-12 Dimethicone Crosspolymer	12.5	XIAMETER™ PMX-0245 Cyclopentasiloxane	1.7	77	Insoluble	No
DOWSIL™ BY 11-030 Emulsifier/Gelling Agent	Cyclopentasiloxane (and) PEG/PPG-19/19 Dimethicone	50	XIAMETER™ PMX-0245 Cyclopentasiloxane	3.6	75	Insoluble	No
DOWSIL™ BY 25-337	PEG/PPG-19/19 Dimethicone (and) C13-16 Isoparaffin (and) C10-13 Isoparaffin	50	Liquid paraffin	N/A	88.5	N/A	No
DOWSIL™ FZ-2233	Bis-Isobutyl PEG/PPG-10/7/ Dimethicone Copolymer	100	None	2.5	198	Insoluble	No
ACULYN™ 2051 Rheology Modifier†	Sodium Polyacrylate (and) Dimethicone (and) Cyclopentasiloxane (and) Trideceth-6 (and) PEG/PPG-18/18 Dimethicone	26	XIAMETER™ PMX-0245 Cyclopentasiloxane, XIAMETER™ PMX-200 Silicone Fluid (5 cSt)	11.4†	> 100	N/A	No
XIAMETER™ OFX-5329 Fluid	PEG-12 Dimethicone	100	None	6.7	76.6	< 23	No

†ACULYN™ 2051 Rheology Modifier HLB is the relevant HLB for nonionic surfactant inside.

Silicone emulsions

DOWSIL™ products	INCI name	Silicone, %	Emulsifier type	Particle size, µm
EMULSIONS				
DOWSIL™ CE-1689 Smoothing Emulsion	Dimethicone (and) Amodimethicone (and) Laureth-23 (and) Polyquaternium-10 (and) Laureth-4	60	Nonionic	18-28
DOWSIL™ CE-7080 Smart Style	Silicone Quaternium-16/Glycidoxo Dimethicone Crosspolymer (and) Undeceth-11 (and) Undeceth-5	~25	Nonionic	0.03-0.05
DOWSIL™ CE 8401 Emulsion ¹	Bis-Isobutyl PEG/PPG-20/35/ Amodimethicone Copolymer (and) Cetyl Ethylhexanoate (and) Polysorbate 80 (and) Butylene Glycol	20	Nonionic	
DOWSIL™ CE 8411 Smooth Plus Emulsion	Bis-Diisopropanolamino-PG-propyl Dimethicone/Bis-Isobutyl PEG-14 Copolymer (and) Polysorbate 20 (and) Butyloctanol	56	Nonionic	
DOWSIL™ HMW 2220 Non-Ionic Emulsion	Divinyldimethicone/Dimethicone Copolymer (and) C12-C13 Pareth-3 (and) C12-C13 Pareth-23	61	Nonionic	< 1
DOWSIL™ 9509 Silicone Elastomer Suspension	Dimethicone/Vinyl Dimethicone Crosspolymer (and) C12-14 Pareth-12	63	Nonionic	1-10
DOWSIL™ CE-7750 Velvety Emulsion	Dimethicone/Vinyldimethicone Crosspolymer, Isoceteth-25, Isoceteth-10	~50	Nonionic	1-10
MICROEMULSIONS				
DOWSIL™ CE-8170 AF Microemulsion	Amodimethicone (and) C11-15 Pareth-7 (and) Laureth-9 (and) Glycerin (and) Trideceth-12	20	Nonionic	< 1
DOWSIL™ 5-7113 Silicone Quat Microemulsion	Silicone Quaternium-16 (and) Undeceth-11 (and) Butyloctanol (and) Undeceth-5	25	Nonionic	< 1
HIP EMULSIONS Active, %				
DOWSIL™ 7-3101 Elastomer Blend HIP Emulsion	Cyclopentasiloxane (and) Dimethicone Crosspolymer (and) Dimethicone (and) Laureth-23 (and) Laureth-4	85	Nonionic	> 1

¹ Not sold in China.

Silicone gum blends

DOWSIL™ product	INCI name	Gum, %	Viscosity, cSt	Flash point, °C	Refractive index	Specific gravity
DOWSIL™ BY 25-320	C13-16 Isoparaffin (and) Dimethicone (and) C10-13 Isoparaffin	20	10,000	83	1.432	0.82

Alkyl methyl siloxanes

DOWSIL™ product	INCI name	Functionality	Melting point average, °C	Form	Refractive index	Average molecular weight
DOWSIL™ 2501 Cosmetic Wax	Bis-PEG-18 Methyl Ether Dimethyl Silane	PEG-18 Methyl Ether	31	Wax	N/A	N/A
DOWSIL™ 2502 Cosmetic Fluid	Cetyl Dimethicone	C ₁₆ H ₃₃	18	Semisolid wax	1.448	2,800
DOWSIL™ 2503 Cosmetic Wax	Stearyl Dimethicone	C ₁₈ H ₃₉	32	Wax	1.447	3,000
DOWSIL™ AMS-C30 Cosmetic Wax	C30-45 Alkyl Methicone (and) C30-45 Olefin	C ₃₀ H ₆₁ to C ₄₅ H ₉₁	71	Wax	1.446	3,200
DOWSIL™ 580 Wax	Stearoxy Trimethylsilane (and) Stearyl Alcohol	C ₁₈ H ₃₇ and Stearyl Alcohol	50	Wax	N/A	300
DOWSIL™ SW-8005 C30 Resin Wax	C30-45 Alkyldimethylsilyl Polypropylsilsesquioxane	[CH ₃ CH ₂ CH ₂ SiO _{3/2}] _x [R(CH ₃) ₂ SiO _{1/2}] _y where R is -(CH ₂) _n CH ₃ where n = 30-45	66	Flake	N/A	N/A

Silicone elastomers

DOWSIL™ product	INCI name	Type/form	Continuous phase	Viscosity, cP	% NVC
DOWSIL™ 9040 Silicone Elastomer Blend	Cyclopentasiloxane (and) Dimethicone Crosspolymer	Gel	Silicone (D5)	250,000-580,000	12.5
DOWSIL™ 9041 Silicone Elastomer Blend	Dimethicone (and) Dimethicone Crosspolymer	Paste	Silicone (XIAMETER™ PMX-200 Silicone Fluid, 5 cSt)	300,000-500,000	100
DOWSIL™ 9045 Silicone Elastomer Blend	Cyclopentasiloxane (and) Dimethicone Crosspolymer	Gel	Silicone (D5)	300,000-500,000	12-12.75
DOWSIL™ 9046 Silicone Elastomer Blend	Cyclopentasiloxane (and) Petrolatum (and) Dimethicone Crosspolymer	Gel	Silicone (D5)	40,000-100,000	23.5
DOWSIL™ EL-9240 Silicone Elastomer Blend	Dimethicone (and) Dimethicone Crosspolymer	Paste	Silicone (XIAMETER™ PMX-200 Silicone Fluid, 2 cSt)	350,000-575,000	13.0-14.75
DOWSIL™ 2-3040 Blend ¹	Cyclopentasiloxane (and) Dimethicone Crosspolymer	Gel	Silicone (D5)	150,000-350,000	10.75-12.25
DOWSIL™ 9506 Powder	Dimethicone/ Vinyl dimethicone Crosspolymer	Powder	N/A	Solid	> 98
DOWSIL™ 9509 Silicone Elastomer Suspension	Dimethicone/ Vinyl dimethicone Crosspolymer (and) C12-14 Pareth-12	Lotion	Water	5,000 cSt	63-71
DOWSIL™ 9701 Cosmetic Powder	Dimethicone/ Vinyl dimethicone Crosspolymer (and) Silica	Powder	N/A	Solid	> 98
DOWSIL™ EP-9801 Hydro Cosmetic Powder	Dimethicone/Vinyl Dimethicone Crosspolymer (and) Silica (and) Butylene Glycol	Powder	N/A	Solid	> 98
DOWSIL™ 9546 Silicone Elastomer Blend	Cyclopentasiloxane (and) Dimethicone Crosspolymer (and) Dimethicone/Vinyl Dimethicone Crosspolymer (and) Dimethiconol	Gel	Silicone (D5)	250,000-450,000	15-16
DOWSIL™ FB-9586 Silicone Elastomer Blend ²	Cyclopentasiloxane (and) Dimethicone/ Vinyl Dimethicone Crosspolymer (and) Dimethicone	Gel	Silicone (D5 + XIAMETER™ PMX-200 Silicone Fluid*)	30,000-70,000	45
DOWSIL™ EL-8040 ID Silicone Organic Blend	Isododecane (and) Dimethicone Crosspolymer	Gel	Isododecane	300,000-550,000	15.25-16.75
DOWSIL™ EL-8050 ID Silicone Organic Elastomer Blend	Isododecane (and) Dimethicone/ Bis-Isobutyl PPG-20 Crosspolymer	Gel	Isododecane	350,000-575,000	14.25-15.75
DOWSIL™ EL-8051 IN Silicone Organic Elastomer Blend	Isodecyl Neopentanoate (and) Dimethicone/ Bis-Isobutyl PPG-20 Crosspolymer	Gel	Isodecyl Neopentanoate	350,000-575,000	100
DOWSIL™ EL-8052 IH Silicone Organic Elastomer Blend	Isohexadecane (and) Dimethicone/ Bis-Isobutyl PPG-20 Crosspolymer	Gel	Isohexadecane	350,000-575,000	16-17.5

¹ Not sold in China.

Specials

DOWSIL™ product	INCI name	Viscosity, cSt	Specific gravity	Refractive index	Flash point, °C	Silicone, %
DOWSIL™ MQ-1600 Solid Resin	Trimethylsiloxysilicate		1.23		> 100	100
DOWSIL™ MQ-1640 Flake Resin	Trimethylsiloxy Silicate (and) Polypropylsilsesquioxane		1.18		> 100	100
DOWSIL™ FA 4001 CM Silicone Acrylate	Cyclopentasiloxane (and) Acrylates/ Polytrimethylsiloxymethacrylate Copolymer	80-400	0.95	1.415	72	30
DOWSIL™ FA 4002 ID Silicone Acrylate	Isododecane (and) Acrylates/ Polytrimethylsiloxymethacrylate Copolymer	100-500	0.75	1.433	40	40
DOWSIL™ VM-2270 Aerogel Fine Particles	Silica Silylate	Solid	0.07	N/A	> 250	100

Customer blend fluids

DOWSIL™ product	INCI name	Viscosity, cP @ 25°C	Silicone content, %	Specific gravity	Appearance
DOWSIL™ CB-3060 Fluid	Cyclotetrasiloxane (and) Cyclopentasiloxane (and) Dimethicone (and) Trisiloxane (and) Phenyl trimethicone (and) Isoparaffinic hydrocarbon	3-7		0.89	Clear, Colorless Liquid

Silicone fluids

XIAMETER™ products	INCI name	Average molecular weight	Specific gravity	Refractive index	Flash point, °C
SILICONE FLUIDS – LOW VISCOSITY					
XIAMETER™ PMX-200 Silicone Fluid, 5 cSt	Dimethicone	700	0.915	1.397	134
XIAMETER™ PMX-200 Silicone Fluid, 6 cSt	Dimethicone	850	0.925	1.397	153
XIAMETER™ PMX-200 Silicone Fluid, 10 cSt	Dimethicone	1,000	0.934	1.399	211
XIAMETER™ PMX-200 Silicone Fluid, 20 cSt	Dimethicone	1,500	0.950	1.401	246
SILICONE FLUIDS – MEDIUM VISCOSITY					
XIAMETER™ PMX-200 Silicone Fluid, 50 cSt	Dimethicone	3,200	0.960	1.402	> 326
XIAMETER™ PMX-200 Silicone Fluid, 100 cSt	Dimethicone	5,000	0.965	1.402	> 326
XIAMETER™ PMX-200 Silicone Fluid, 200 cSt	Dimethicone	7,500	0.970	1.403	> 326
XIAMETER™ PMX-200 Silicone Fluid, 350 cSt	Dimethicone	10,000	0.970	1.404	> 326
XIAMETER™ PMX-200 Silicone Fluid, 500 cSt	Dimethicone	13,000	0.970	1.404	> 326
XIAMETER™ PMX-200 Silicone Fluid, 1,000 cSt	Dimethicone	16,500	0.970	1.404	> 326
SILICONE FLUIDS – HIGH VISCOSITY					
XIAMETER™ PMX-200 Silicone Fluid, 12,500 cSt	Dimethicone	64,000	0.970	1.404	> 326
XIAMETER™ PMX-200 Silicone Fluid, 60,000 cSt	Dimethicone	95,000	0.970	1.404	> 326
XIAMETER™ PMX-200 Silicone Fluid, 300,000 cSt	Dimethicone	204,000	0.970	1.404	> 326
XIAMETER™ PMX-200 Silicone Fluid, 500,000 cSt	Dimethicone	> 100,000	0.970	1.403	321
XIAMETER™ PMX-9111 Fluid	Cyclopentasiloxane (and) Dimethicone	N/A	0.962	1.399	> 72
SILICONE FLUIDS – VOLATILE					
XIAMETER™ PMX-0245 Cyclopentasiloxane	Cyclopentasiloxane	371	0.95	1.397	76
XIAMETER™ PMX-0246 Cyclohexasiloxane	Cyclohexasiloxane (and) Cyclopentasiloxane	445	0.96	1.399	93
XIAMETER™ PMX-200 Silicone Fluid, 0.65 cSt	Disiloxane	162	0.76	1.375	-3
XIAMETER™ PMX-200 Silicone Fluid, 1.0 cSt	Trisiloxane	236	0.82	1.382	30
XIAMETER™ PMX-200 Silicone Fluid, 1.5 cSt	Dimethicone	311	0.85	1.387	57
XIAMETER™ PMX-200 Silicone Fluid, 2.0 cSt	Dimethicone	385	0.87	1.389	87

Silicone polyethers/emulsifiers

XIAMETER™ products	INCI name	Active, %	Diluent	Calculated HLB	Flash point, °C	Cloud, °C	Water solubility
XIAMETER™ OFX-0193 Fluid	PEG-12 Dimethicone	100	None	12.2	99	87	Yes
XIAMETER™ OFX-5330 Fluid	PEG/PPG-15/15 Dimethicone	100	None	7.1	97	35.7	Yes
XIAMETER™ OFX-5324 Fluid	PEG-12 Dimethicone	100	None	8.4	60	23	Yes



Silicone emulsions

XIAMETER™ products	INCI name	Silicone, %	Emulsifier type	Particle size, µm
EMULSIONS				
XIAMETER™ MEM-0939 Emulsion	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride	35	Cationic	< 1
XIAMETER™ MEM-0949 Emulsion	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride	35	Cationic	< 1
XIAMETER™ MEM-0959 Emulsion	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride	50	Cationic	< 1
XIAMETER™ MEM-8299 Emulsion	Amodimethicone (and) Trideceth-6 (and) Cetrimonium Chloride	60	Cationic	<1
XIAMETER™ MEM-1491 Emulsion ¹	Dimethicone (and) Laureth-23 (and) C12-15 Pareth-3	60	Nonionic	10-30
XIAMETER™ MEM-1352 Emulsion	Dimethicone (and) Laureth-23 (and) C12-15 Pareth-3	60	Nonionic	< 1
XIAMETER™ MEM-1691 Emulsion	Dimethicone (and) C12-13 Pareth-4 (and) C12-13 Pareth-23 (and) Salicylic Acid	50	Nonionic	< 1
XIAMETER™ MEM-7137 Emulsion	Dimethicone (and) Cocamidopropyl Betaine (and) C12-15 Pareth-3 (and) Guar Hydroxypropyltrimonium Chloride	65	Nonionic	25-45
XIAMETER™ MEM-7138 Emulsion	Dimethicone (and) Laureth-23 and C12-15 Pareth-3	60	Nonionic	10-30
XIAMETER™ MEM-1785 Emulsion ¹	Dimethiconol (and) TEA Dodecylbenzenesulfonate	60	Anionic	< 1
XIAMETER™ MEM-1788 Emulsion ¹	Dimethiconol (and) TEA Dodecylbenzenesulfonate	51	Anionic	< 1
MICROEMULSIONS				
XIAMETER™ MEM-1391 Emulsion	Dimethiconol (and) TEA-Dodecyl-benzenesulfonate (and) Dimethiconol/Silsesquioxane Copolymer (and) Laureth-23	25	Anionic	< 1
XIAMETER™ MEM-8168 Emulsion	Amodimethicone (and) C12-14 Sec-Pareth-7 (and) C12-14 Sec-Pareth-5	20	Nonionic	< 1
XIAMETER™ MEM-8177 Emulsion	Amodimethicone (and) C12-14 Sec-Pareth-7 (and) C12-14 Sec-Pareth-5	12	Nonionic	< 1
XIAMETER™ MEM-8194 Emulsion	Amodimethicone (and) Trideceth-12 (and) Cetrimonium Chloride	26	Cationic	< 1
DOWSIL™ CE-1870 POE Emulsion	Dimethiconol (and) TEA-Dodecyl-benzenesulfonate (and) Laureth-23	25	Anionic	< 1

Silicone gum blends

XIAMETER™ products	INCI name	Gum, %	Viscosity, cSt	Flash point, °C	Refractive index	Specific gravity
XIAMETER™ PMX-1263 Fluid ¹	Cyclopentasiloxane (and) Dimethiconol (and) Dimethicone	15	7,500	> 72	1.397	0.96
XIAMETER™ PMX-1401 Fluid	Cyclopentasiloxane (and) Cyclotetrasiloxane (and) Dimethiconol	13	6,000	52	1.397	0.96
XIAMETER™ PMX-1411 Fluid	Cyclopentasiloxane (and) Dimethicone	15	6,000	70	1.397	0.97
XIAMETER™ PMX-1403 Fluid	Dimethicone (and) Dimethiconol	13	4,000	135	1.397	0.93
XIAMETER™ PMX-1501 Fluid	Cyclopentasiloxane (and) Dimethiconol	15	6,000	67	1.397	0.96
XIAMETER™ PMX-1503 Fluid	Dimethicone (and) Dimethiconol	12	2,000	109	1.397	0.98
DOWSIL™ CB-1556 Fluid	Phenyl Trimethicone (and) Dimethiconol	12	5,000	> 105	1.452	0.918

Silicone elastomers

XIAMETER™ products	INCI name	Type/form	Continuous phase	Viscosity, cP	% NVC
XIAMETER™ PMX-9027 Fluid	Cyclopentasiloxane (and) Dimethiconol (and) Dimethicone Crosspolymer	Viscous Liquid	Silicone (D5)	3,000-5,000	11

Other fluids

XIAMETER™ products	INCI name	Viscosity, cP @ 25°C	Silicone content, %	Specific gravity	Appearance
XIAMETER™ PMX-3021 Fluid ¹	Cyclopentasiloxane, Dimethiconol, Dimethicone Crosspolymer (and) Phenyltrimethicone Blend	10	100	0.95	Clear, colorless liquid
XIAMETER™ PMX-3031 Fluid ¹	Cyclopentasiloxane, Dimethiconol, Dimethicone Crosspolymer (and) Phenyl Trimethicone Blend	500	100	0.96	Clear, colorless liquid

¹ Not sold in China.

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