

Automotive appearance chemicals product selection guide

DOW

®





Automotive surfaces

Performance-enhancing solutions from Dow

Dow provides an array of performance-enhancing solutions for manufacturers of products for automotive surfaces, including waxes, polishes, and tire and vinyl protectants. Dow's silicone-based innovations offer choices that allow manufacturers to differentiate their products by improving shine and durability while modifying water beading potential, sheeting effect and feel. Silicones impart a range of perceived benefits to automotive surface products destined for use in the institutional, body shop and retail markets.

Benefits include:

- Application ease
- Gloss
- Depth of gloss, also known as color enhancement
- Durability and detergent resistance
- Water repellency
- Ease of buff or rub-out

XIAMETER™ PMX-200 Silicone Fluids from Dow set the industry standard for many automotive surface applications. These fluids, plus other DOWSIL™ and XIAMETER™ products, including organo-modified polysiloxanes, resins and additional product types, offer manufacturers almost unlimited possibilities for their formulations.

Introduction to this product selection guide

From start to finish, formulating automotive surface products has never been easier. The tables in this guide will assist you in making the right choices to secure the product properties you seek. Table I describes in general terms the benefits achieved by using products from Dow, while Tables II and III allow you to compare products based on a given application. Benefits may vary depending on the actives delivery mechanisms considered in your formulation. Contact Dow for technical support, or visit dow.com

Table I: Application selector guide

Target application → Benefit ↓		Wash and rinse aid	Exterior wax, conditioner and sealant	Exterior trim protectant	Upholstery care
Water-based	Gloss	DOWSIL™ FZ-4658 XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion XIAMETER™ MEM-0062 Emulsion XIAMETER™ MEM-1865 Emulsion XIAMETER™ MEM-1473 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion XIAMETER™ MEM-0062 Emulsion XIAMETER™ MEM-1865 Emulsion XIAMETER™ MEM-0039 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion
	Durability	XIAMETER™ MEM-8035 Emulsion DOWSIL™ FZ-4658	XIAMETER™ MEM-8035 Emulsion DOWSIL™ BY 22-749 SR Emulsion	XIAMETER™ MEM-8035 Emulsion DOWSIL™ HV 496 Emulsion XIAMETER™ MEM-1101 Emulsion	
	Ease of use	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion	
	Water beading	DOWSIL™ FZ-4658 XIAMETER™ MEM-8035 Emulsion	DOWSIL™ BY 22-749 SR Emulsion	XIAMETER™ MEM-8035 Emulsion	
	Leveling	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion XIAMETER™ MEM-1473 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion XIAMETER™ MEM-0039 Emulsion XIAMETER™ MEM-1473 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion XIAMETER™ MEM-0039 Emulsion XIAMETER™ MEM-1473 Emulsion	
	Paintability		XIAMETER™ MEM-5009 Emulsion DOWSIL™ 2418 Release Emulsion	XIAMETER™ MEM-5009 Emulsion DOWSIL™ 2418 Release Emulsion	
	Wetting	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion XIAMETER™ MEM-8035 Emulsion			
	Slip	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion XIAMETER™ MEM-8035 Emulsion	XIAMETER™ MEM-1865 Emulsion	XIAMETER™ MEM-1865 Emulsion XIAMETER™ MEM-1101 Emulsion XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion	
	Color enhancement		DOWSIL™ HV 496 Emulsion XIAMETER™ MEM-1865 Emulsion XIAMETER™ MEM-1101 Emulsion	DOWSIL™ HV 496 Emulsion XIAMETER™ MEM-1865 Emulsion XIAMETER™ MEM-1101 Emulsion	

	Interior trim renovator	Leather conditioner	Glass care	Vinyl protectant	Tire care
	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-1473 Emulsion XIAMETER™ MEM-0062 Emulsion XIAMETER™ MEM-0039 Emulsion XIAMETER™ MEM-0346 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-1473 Emulsion XIAMETER™ MEM-0346 Emulsion XIAMETER™ MEM-0062 Emulsion XIAMETER™ MEM-0039 Emulsion	DOWSIL™ 193C Fluid	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion XIAMETER™ MEM-0039 Emulsion XIAMETER™ MEM-0062 Emulsion
	XIAMETER™ MEM-8035 Emulsion DOWSIL™ HV 496 Emulsion	DOWSIL™ HV 496 Emulsion		XIAMETER™ MEM-8035 Emulsion	XIAMETER™ MEM-8035 Emulsion DOWSIL™ BY 22-729 EX Emulsion DOWSIL™ HV 496 Emulsion XIAMETER™ MEM-1101 Emulsion
	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion		XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion
		XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion			XIAMETER™ MEM-1101 Emulsion XIAMETER™ MEM-8035 Emulsion
	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-1473 Emulsion XIAMETER™ MEM-8035 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion XIAMETER™ MEM-0039 Emulsion XIAMETER™ MEM-1473 Emulsion	DOWSIL™ 193C Fluid		XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion XIAMETER™ MEM-1473 Emulsion
	DOWSIL™ 2418 Release Emulsion			XIAMETER™ MEM-5009 Emulsion DOWSIL™ 2418 Release Emulsion	
	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion XIAMETER™ MEM-8035 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion	XIAMETER™ OFX-5211 Fluid DOWSIL™ 193C Fluid		XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion XIAMETER™ MEM-1101 Emulsion XIAMETER™ MEM-8035 Emulsion
	XIAMETER™ MEM-8035 Emulsion XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion	XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion			XIAMETER™ MEM-8035 Emulsion XIAMETER™ MEM-1101 Emulsion XIAMETER™ MEM-0349 Emulsion XIAMETER™ MEM-0346 Emulsion
	DOWSIL™ HV 496 Emulsion XIAMETER™ MEM-1865 Emulsion XIAMETER™ MEM-1101 Emulsion	DOWSIL™ HV 496 Emulsion XIAMETER™ MEM-1865 Emulsion XIAMETER™ MEM-1101 Emulsion			XIAMETER™ MEM-1101 Emulsion DOWSIL™ HV 496 Emulsion

Table I: Application selector guide (continued)

Target application → Benefit ↓		Wash and rinse aid	Exterior wax, conditioner and sealant	Exterior trim protectant	Upholstery care
Solvent-based	Gloss		XIAMETER™ PMX-200 Silicone Fluid (350-1,000 cSt) XIAMETER™ OFX-0531 Fluid DOWSIL™ 3527 Release Agent DOWSIL™ 2-1912 Fluid DOWSIL™ 2-5088 Wax	XIAMETER™ PMX-200 Silicone Fluid (350-1,000 cSt) XIAMETER™ OFX-0531 Fluid DOWSIL™ 3527 Release Agent DOWSIL™ 2-1912 Fluid	
	Durability	XIAMETER™ OFX-8630 Fluid	XIAMETER™ OFX-0536 Fluid XIAMETER™ OFX-0531 Fluid DOWSIL™ 3527 Release Agent DOWSIL™ 2-1912 Fluid DOWSIL™ 593 Fluid DOWSIL™ 2-5088 Wax XIAMETER™ OFX-8630 Fluid	DOWSIL™ 3527 Release Agent DOWSIL™ 593 Fluid DOWSIL™ 2-1912 Fluid	
	Ease of use		XIAMETER™ PMX-200 Silicone Fluid (50-1,000 cSt) XIAMETER™ OFX-0531 Fluid	XIAMETER™ PMX-200 Silicone Fluid (50-1,000 cSt) XIAMETER™ OFX-0531 Fluid	
	Water beading	XIAMETER™ PMX-0245 Cyclopentasiloxane XIAMETER™ PMX-200 Silicone Fluid XIAMETER™ OFX-8630 Silicone Fluid	DOWSIL™ 3527 Release Agent DOWSIL™ 2-1912 Fluid XIAMETER™ OFX-0531 Silicone Fluid DOWSIL™ 2-5088 Wax XIAMETER™ PMX-200 Silicone Fluid	DOWSIL™ 593 Fluid XIAMETER™ OFX-0531 Fluid XIAMETER™ OFX-0536 Fluid DOWSIL™ 2-5088 Wax XIAMETER™ PMX-200 Silicone Fluid	DOWSIL™ FBL-0563 Formulated Blend
	Leveling	XIAMETER™ PMX-0245 Cyclopentasiloxane	XIAMETER™ PMX-200 Silicone Fluid DOWSIL™ 593 Fluid	XIAMETER™ PMX-200 Silicone Fluid	
	Paintability		DOWSIL™ 2-5088 Wax XIAMETER™ OFX-0203 Fluid XIAMETER™ OFX-0230 Fluid	XIAMETER™ OFX-0203 Fluid XIAMETER™ OFX-0230 Fluid	
	Dry finish		DOWSIL™ 2-5088 Wax		
	Wetting	XIAMETER™ PMX-0245 Cyclopentasiloxane	XIAMETER™ PMX-200 Silicone Fluid	XIAMETER™ PMX-200 Silicone Fluid	XIAMETER™ PMX-200 Silicone Fluid
	Slip		XIAMETER™ PMX-200 Silicone Fluid	XIAMETER™ PMX-200 Silicone Fluid	XIAMETER™ PMX-200 Silicone Fluid
	Color enhancement		XIAMETER™ PMX-200 Silicone Fluid (10,000-60,000 cSt)	XIAMETER™ PMX-200 Silicone Fluid (10,000-60,000 cSt)	

	Interior trim renovator	Leather conditioner	Glass care	Vinyl protectant	Tire care
	XIAMETER™ PMX-200 Silicone Fluid (350-1,000 cSt)	XIAMETER™ PMX-200 Silicone Fluid (350-1,000 cSt) DOWSIL™ 2-5088 Wax		XIAMETER™ PMX-200 Silicone Fluid (350-1,000 cSt)	XIAMETER™ PMX-200 Silicone Fluid (350-1,000 cSt)
		DOWSIL™ 2-5088 Wax			XIAMETER™ PMX-200 Silicone Fluid (12,500-60,000 cSt) XIAMETER™ OFX-8630 Fluid DOWSIL™ 3527 Release Agent DOWSIL™ 593 Fluid DOWSIL™ 2-1912 Fluid
	XIAMETER™ PMX-200 Silicone Fluid (50-1,000 cSt)	XIAMETER™ PMX-200 Silicone Fluid (50-1,000 cSt)		XIAMETER™ PMX-200 Silicone Fluid (50-1,000 cSt)	XIAMETER™ PMX-200 Silicone Fluid (50-1,000 cSt)
	DOWSIL™ 593 Fluid DOWSIL™ 2-1912 Fluid DOWSIL™ 3527 Release Agent XIAMETER™ PMX-200 Silicone Fluid	DOWSIL™ 2-5088 Wax	DOWSIL™ 3527 Release Agent	XIAMETER™ PMX-200 Silicone Fluid	DOWSIL™ 2-1912 Fluid DOWSIL™ 593 Fluid DOWSIL™ 3527 Release Agent XIAMETER™ PMX-200 Silicone Fluid
	XIAMETER™ PMX-200 Silicone Fluid	XIAMETER™ PMX-200 Silicone Fluid		XIAMETER™ PMX-200 Silicone Fluid	XIAMETER™ PMX-0244 Cyclotetrasiloxane XIAMETER™ PMX-0245 Cyclopentasiloxane DOWSIL™ OS-2 Silicone Cleaner and Solvent
	XIAMETER™ OFX-0203 Silicone Fluid XIAMETER™ OFX-0230 Fluid	DOWSIL™ 2-5088 Wax		XIAMETER™ OFX-0203 Fluid XIAMETER™ OFX-0230 Fluid DOWSIL™ 2-5088 Wax	XIAMETER™ OFX-0230 Fluid XIAMETER™ OFX-0203 Fluid
		DOWSIL™ 2-5088 Wax			
	XIAMETER™ PMX-200 Silicone Fluid	XIAMETER™ PMX-200 Silicone Fluid		XIAMETER™ PMX-200 Silicone Fluid	XIAMETER™ PMX-0244 Cyclotetrasiloxane XIAMETER™ PMX-0245 Cyclopentasiloxane XIAMETER™ PMX-0345 Cyclosiloxane Blend DOWSIL™ OS-2 Silicone Cleaner and Solvent XIAMETER™ PMX-200 Silicone Fluid
	XIAMETER™ PMX-200 Silicone Fluid	XIAMETER™ PMX-200 Silicone Fluid		XIAMETER™ PMX-200 Silicone Fluid	
	XIAMETER™ PMX-200 Silicone Fluid (10,000-60,000 cSt)	XIAMETER™ PMX-200 Silicone Fluid (10,000-60,000 cSt)			XIAMETER™ PMX-200 Silicone Fluid (10,000-60,000 cSt)

Table II: Solvent-based product comparison

Description	Currently available in these geographic areas	Product	Functions, benefits and recommendations
Volatile silicone	Global	XIAMETER™ PMX-200 Silicone Fluid, 0.65 cs	Volatile, low-viscosity fluids designed for use as carriers, high-performance non-VOC ³ solvents and cleaning aids in a wide range of automotive polish formulations; effective wetting properties deliver actives to the automotive surface; slip, water repellency and gloss characteristics are present for a limited time; replace mineral seal oil in rinse aids; effective microemulsions can be achieved when combined with silicone surfactants.
	Global	DOWSIL™ OS-2 Silicone Cleaner and Solvent	
	Global	XIAMETER™ PMX-1184 Silicone Fluid	
	Global	XIAMETER™ PMX-0244 Cyclotetrasiloxane	
	Global	XIAMETER™ PMX-0245 Cyclopentasiloxane	
	Global	XIAMETER™ PMX-0345 Cyclosiloxane Blend	
Silicone fluid	Global	XIAMETER™ PMX-200 Silicone Fluid	High-viscosity fluids provide excellent depth of gloss and improvements in durability and water resistance; useful in solvent-based formulations; blend of intermediate- and high-viscosity fluids recommended to achieve a good balance in gloss, application ease and rub-out; a 3:1:1 ratio of 350, 1,000 and 12,500 cSt products optimizes shine and durability; products are available in emulsion form.
Amino functional silicone	Global	XIAMETER™ OFX-0531 Fluid	Offering enhanced durability, detergent resistance and corrosion resistance; offered in crosslinkable (curable) and non-crosslinkable versions; curable products produce a continuous film; non-crosslinkable products offer excellent stability and shelf life; deposit and adhere strongly to automobile finishes, chrome and aluminum surfaces.
	Global	XIAMETER™ OFX-0536 Fluid	
	Global	XIAMETER™ OFX-8630 Fluid	
Alkylaryl functional fluid	Global	XIAMETER™ OFX-0203 Fluid	Have properties similar to intermediate-viscosity fluids, but with alkyl functionality; serve as actives for leather conditioners; provide preferred technologies to formulate products for body shop use.
	Global	XIAMETER™ OFX-0230 Fluid	
Silicone wax	Global	DOWSIL™ 2-5088 Wax	Serves as active for leather conditioners; provides preferred technologies to formulate products for body shop use; serves as an ingredient for hard waxes, paintable polishes, wax conditioners, polishes and polymer sealants.
Emulsifier wetting agent	Global	XIAMETER™ OFX-0190 Fluid	Cleaning and wetting properties; lubricity in glass cleaners; ability to be used in water-in-oil and water-in-silicone emulsions makes them unique to formulate non-VOC products; XIAMETER™ OFX-0190 Fluid, XIAMETER™ OFX-0193 Fluid and XIAMETER™ OFX-3667 Fluid are suited for cosurfactants; XIAMETER™ OFX-0193 Fluid for anti-fog applications; DOWSIL™ 5225C Formulation Aid for water-in-silicone emulsions; DOWSIL™ 5200 Formulation Aid for water-in-oil emulsions.
	Global	XIAMETER™ OFX-0193 Fluid	
	Global	DOWSIL™ 5225C Formulation Aid	
	Global	XIAMETER™ OFX-3667 Fluid	
	Global	DOWSIL™ 5200 Formulation Aid	
Silicone resin	Global	DOWSIL™ 593 Fluid	Long-lasting water durability and repellency that protects automotive surfaces; preferred when enhanced water beading is desired; some can be reacted with catalyst agents to formulate fabric water repellents.
	Global	DOWSIL™ FBL-0563 Formulated Blend	
	Global	DOWSIL™ 2-1912 Fluid	
	Global	DOWSIL™ 3527 Release Agent	

1. Comparison Ratings (●●●●● = Best; ● = Moderate). Note: Ratings are a preliminary guideline only. See product data sheets for detailed information. All tested products have been tested at 5% actives on automotive panels using a suitable solvent.
2. The above information is not intended for use in preparing product specifications. Contact Dow before writing specifications.
3. VOC = Volatile Organic Compounds, according to the U.S. Clean Air Act. Contact Dow for product compliance in your area.
4. California Air Resources Board.

	Comparison ratings ¹					Viscosity, cSt ²	% Actives	Notes
	Shine	Durability	Ease of use	Wetting	Slip			
			•••••	•••••		0.65	100	Volatile carrier; CARB ⁴ compliant
				••••		0.78	100	
						1.6	100	Not tested for comparison ratings
						2.5	100	Volatile carrier; CARB ⁴ compliant; not tested for comparison ratings
			•••••	•••••		4.0	100	Volatile carrier; CARB ⁴ compliant
			•••••	•••••		5.0	100	Volatile carrier; CARB ⁴ compliant
	••••	••	••••	••••	•••••	50-1,000	100	
	••••	••••	••	•	••••	10,000-60,000	100	
	•••••	•••	•••	••	•	160	50	
	••	•••••	•••	•	••	40	100	
	•	••••	•••	••	••	500	100	
	•••	•••	•••	•••	•	1,200	100	Not tested for comparison ratings
						1,125-1,645	100	
	••••	••••	••		•	-	100	Melt at 70°C prior to use
						2,000	100	Not tested for comparison ratings
	•		•••••	•••••	•	400	100	
	•	•	•••	•••	•	700	100	
						200-500	100	Not tested for comparison ratings
	••••	•	••	••	•	2,500	100	
	••	••	••••	••••	•••	700	100	
						7	42	Air-drying, air-curing; imparts a high degree of water repellency on natural and synthetic fabrics; not tested for comparison ratings
	••••	••	••••	••••	•••	700	100	
	•••	•••	•••	•••	••	2,000	100	

Table III: Water-based product comparison

Description	Currently available in these geographic areas	Product	Functions, benefits and recommendations
Silicone fluid emulsion	Americas, Asia	XIAMETER™ MEM-0349 Emulsion	Preferred for water-based formulations, these emulsions and microemulsions offer significant advantages when formulating flexibility is desirable; good compatibility; good surface abrasion characteristics; good gloss, minimum smear; for use in automotive polishes and rubber/vinyl protectant formulations, cleaning properties; provide proven performance, reliable quality and speed to market; the small particle size of the microemulsion products offers better penetration, improved wetting out, more consistent coatings.
	Americas, Asia	XIAMETER™ MEM-0039 Emulsion	
	Americas	XIAMETER™ MEM-1101 Emulsion	
	Europe	XIAMETER™ MEM-0346 Emulsion	
	Europe	XIAMETER™ MEM-1473 Emulsion	
	Global	XIAMETER™ MEM-0347G Emulsion	
	Americas	XIAMETER™ MEM-0062 Emulsion	
	Global	DOWSIL™ HV 496 Emulsion	
Silicone Fluid Microemulsion	Global	XIAMETER™ MEM-1865 Emulsion	
Amino functional silicone emulsion	Global	XIAMETER™ MEM-8035 Emulsion	Provide outstanding bonding and adhesion properties to automotive finishes, allowing repeated washings and adverse weather conditions.
Alkylaryl functional silicone emulsion	Global	XIAMETER™ MEM-5009 Emulsion	Have properties similar to intermediate-viscosity fluids, but with alkyl functionality; serve as actives for leather conditioners; provide preferred technologies to formulate products for body shop use.
	Europe	DOWSIL™ 2418 Release Emulsion	
Amino emulsion silicone emulsion	Japan	DOWSIL™ BY 22-729 EX Emulsion	Provides durability to tire treatment products.
Resin emulsion	Japan	DOWSIL™ BY22-749 SR Emulsion	Provides durable water repellency to liquid car polish products, tire treatment products.
Amino microemulsion	Japan	DOWSIL™ FZ-4658	Provides durable water repellency to shampoo for automated car washes; the small particle size prevents blockage in the pipes of the washing mechanism.

1. Comparison Ratings (●●●● = Best, ● = Moderate). Note: Ratings are a preliminary guideline only. See product data sheets for detailed information. All tested products have been tested at 5% actives on automotive panels using a suitable solvent.

	Comparison ratings ¹					Viscosity, cSt ² (*polymer viscosity for the emulsion products)	% Actives	Emulsifier type	Free of APEO surfactants	Compliant with European detergent regulations EC 648/2004	Notes
	Shine	Durability	Ease of use	Wetting	Slip						
	••••	•••	••••	•••	••	350 [‡]	60	Nonionic	Yes	Yes	
	••	••	•••	••	•	350 [‡]	35	Nonionic	Yes	Yes	
	•••	••	•••	•••	•••	125,000 [‡]	60	Anionic	Yes		
	••••	••••	••••	•••	••	350 [‡]	60	Nonionic	Yes	Yes	
	••••	•••	•••	•••	•	400	50	Nonionic	Yes	Yes	
	•••	••	••••	•••	•	OH Functional	60	Nonionic	Yes	Yes	
	••••	•••	••••	•••	•••	1,000 [‡]	60	Nonionic+antistat	Yes	Yes	
	••••	••••	•	•••	••	100,000 [‡]	35	Slightly anionic	Yes	Yes	
	••	•••	••	••	••••	12,500 [‡]	25	Anionic/nonionic	Yes	Yes	Translucent
	•••	••••	••	•	••••	-	35	Cationic	Yes	Yes	
	••	••	•••	•••	••	-	50	Nonionic/anionic	Yes		Emulsifiers are readily biodegradable
	••••	••••	•••	•••	•	-	50	Nonionic	Yes	No	
	••	••••	•	•	••		20	Nonionic	Yes		
	•••	••••	••••	•••	••		70	Nonionic	Yes		
	•••	••••	••••	•••	•••		15	Nonionic	Yes	Yes	Translucent gray

For more information

Whether you seek industry-leading innovation or greater cost efficiency, Dow can help. Solutions by Dow deliver specialty materials, collaborative problem-solving and innovation support tailored to your needs. See details at [dow.com](https://www.dow.com).

How to contact us

Dow has sales offices and manufacturing sites, as well as science and technology laboratories, around the globe. Telephone numbers of locations near you are available at [dow.com](https://www.dow.com).

Images: dow_40611853745, dow_43547575465

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

© 2022 The Dow Chemical Company. All rights reserved.

200020605

Form No. 26-1382-01-0822 S2D