



**WACKER**

**SILICONES**

Wacker-Belsil®

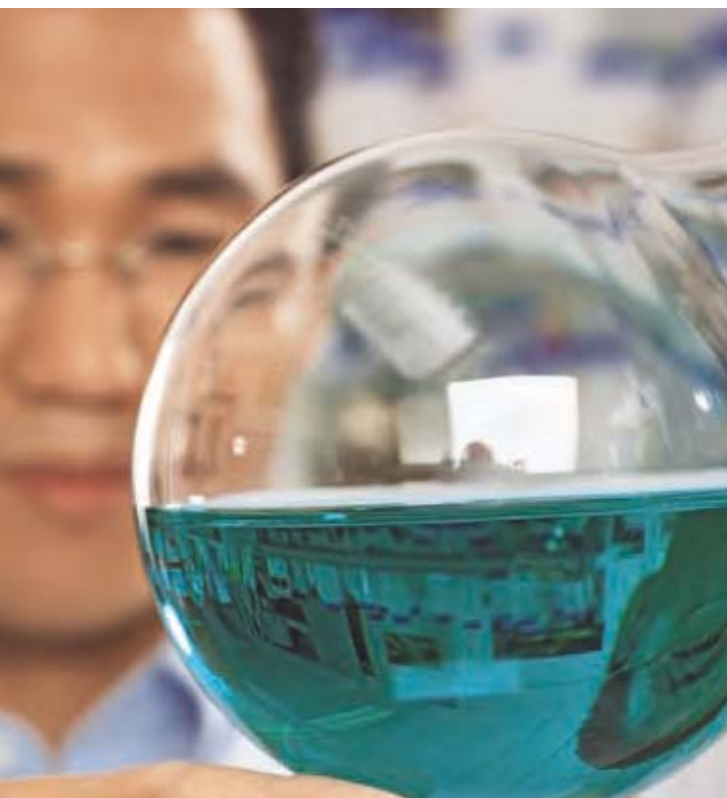
CHEMISTRY FOR THE SENSES  
A SHORT GUIDE TO SILICONES FOR THE  
COSMETICS INDUSTRY

CREATING TOMORROW'S SOLUTIONS

# SILICONES AS BEAUTY SPECIALISTS: CHOOSE THE EASY WAY

Silicones are genuine beauty specialists. At all levels. They help with personal care, beautify skin and hair, and even make the cosmetic product itself more attractive. For example, they confer smoothness on creams and prevent stickiness in oils. In shampoos, they make hair softer and easier to comb. Silicones also improve the spreadability of natural oils, thus making it easier to

apply emulsions on the skin. Often, just a small addition of silicone makes all the difference – provided it was engineered with plenty of expertise. Expertise you can count on at WACKER SILICONES, one of the world's most experienced silicone manufacturers. We help you make easy use of the potential residing in silicones – to improve existing products or develop new ones.





### Competitive Edge through R&D

Innovations drive the cosmetics industry. With annual R&D expenditure averaging 6 % of sales from 2000-2004, WACKER ranks among the chemical industry's most research-intensive companies\*. Over 800 patents\*\*, including key ones for the cosmetics industry, prove that WACKER plays an active part in developing new technologies, products and markets. Of course, we also enter into confidential development partnerships.

### Ready-to-Use Formulations

With a current portfolio in excess of 2,000 silicone products, WACKER SILICONES is among the world's leading manufacturers of silanes and silicones. This impressive product range is backed up by comprehensive applications experience, which we make available to customers around the globe. We test all kinds of formulations in WACKER applications labs and perform the necessary research for you to perfect your products and reduce time-to-market.

### Strength through Synergies

In its WACKER SILICONES and WACKER FINE CHEMICALS business divisions, WACKER offers products and know-how from two branches of chemistry that are important for the cosmetics industry: inorganic and organic. This results in numerous synergies that benefit customers. Innovative new products, such as our Wacker-Belsil® silicone waxes, are just one example. These waxes are hybrid materials that combine the advantages of silicone chemistry and organic chemistry. They retain moisture as do paraffin waxes, but without making the skin feel greasy, and are highly compatible with other organic constituents. Another advantage is evident in the formulations: WACKER specialists know all about the different chemistries involved and can therefore save you time-consuming tests.

\* Ranking by the chemical industry in "Chemical Week Online," Sept. 14, 2005; column "Innovation: R&D expenditure as % of total sales"

\*\*Status in 2004

Wacker-Belsil® is a registered trademark of Wacker Chemie AG

# HAIR. SELECTION GUIDE: EFFECTS

Applications			Product type		Functions/benefits				
Shampoo	Conditioning rinses	Fixatives	Wacker-Belsil® name	INCI designations	Dry combing force	Wet combing force	Softness/silkiness	Shine	Volume
			<b>Volatile silicones</b>						
	x	x	CM 040	Cyclopentasiloxane		•	•	•	
	x	x	DM 0.65	Disiloxane		•	•	•	
	x	x	DM 1 PLUS	Dimethicone		•	•	•	
			<b>Dimethicones &amp; Dimethiconols</b>						
	x	x	DM 5	Dimethicone			•	•	
	x	x	DM 10	Dimethicone			•	•	
	x	x	DM 20	Dimethicone			•	•	
	x	x	DM 50	Dimethicone			•	•	
	x		DM 100	Dimethicone			•	•	
	x		DM 350	Dimethicone			•	•	
	x		DM 500	Dimethicone			•	•	
	x		DM 1000	Dimethicone			•	•	
	x		DM 12500	Dimethicone			•	•	
x	x		DM 60000	Dimethicone	•	••	•	•	
x	x		DM 300000	Dimethicone	•	••	••	•	•
x	x		DM 500000	Dimethicone	•	••	••	•	•
x	x		DM 1000000	Dimethicone	•	••	••	•	•
x	x		DM 3112 VP	Dimethiconol, Sodium Dodecylbenzenesulfonate	•	•	•	•	•
x	x		DM 60081 VP	Dimethiconol, TEA-Dodecylbenzenesulfonate	•	••	••	•	
x	x		DM 6008 VP	Dimethiconol, Sodium Dodecylbenzenesulfonate	•	•	••	•	
x	x	x	CM 1000	Cyclopentasiloxane, Dimethiconol	•	••	•	•	
x	x	x	CM 3092	Cyclopentasiloxane, Dimethiconol	•	••	•	•	
x	x	x	DM 3096	Dimethicone, Dimethiconol	•	•		•	
			<b>Phenyl-modified silicones</b>						
x	x	x	PDM 20	Trimethylsiloxyphenyl Dimethicone	•	•	•	•••	
x	x	x	PDM 350 VP	Trimethylsiloxyphenyl Dimethicone	•	•	•	•••	
x	x	x	PDM 1000	Trimethylsiloxyphenyl Dimethicone	•	•	•	•••	

Applications			Product type		Functions/benefits				
Shampoo	Conditioning rinses	Fixatives	Wacker-Belsil® name	INCI designations	Dry combing force	Wet combing force	Softness/silkiness	Shine	Volume
			<b>Alkyl/alkoxy-modified silicones</b>						
x	x		CDM 3526 VP	C26-28 Alkyl Dimethicone	•	••	•		•••
x	x		CM 7026 Flakes VP	C26-28 Alkyl Methicone	•	••	•		•••
x	x		MM 8030 Flakes VP	C30-45 Alkyl Methicone	•	••			•••
x	x		LDM 3107 VP	Lauryl Dimethicone	•	••	•		••
x	x		SDM 5055 VP	Stearyl Dimethicone	•	••	•		•••
x	x		SDM 6022	Stearoxy Dimethicone, Dimethicone	•	••	•		
x	x		SM 6018	Stearyl Methicone	•	••	•		•••
			<b>Polyether-functional silicones</b>						
x	x	x	DMC 6031	PEG/PPG-25/25 Dimethicone	•	•	•		
x	x	x	DMC 6038	Bis-PEG 15-Methyl Ether Dimethicone	•	•	•		
x	x	x	DMC 3071 VP	Cetyl PEG/PPG-15/15 Butyl Ether Dimethicone	•	•	•		
			<b>Amino-functional silicones</b>						
x	x		ADM 1100	Amodimethicone	••	••	•••	•	
x	x		ADM 1600	Amodimethicone	•	•	••	•	
x	x		ADM 1650	Amodimethicone	•	•	••	•	
x	x		ADM 6057 E	Amodimethicone, Cetrimonium Chloride, Trideceth-10	•••	•••	••	•	
x	x		ADM 652	Amodimethicone	••	••	••	•	
x	x		ADM 653	Trimethylsiloxyamodimethicone	••	••	••	•	
x	x		ADM 656	Amodimethicone	•	•	••	•	
x	x		ADM 8020 VP	Amodimethicone, Trideceth-5, Glycerine, Trideceth-10	•••	•••	•••	•	
			<b>Silicone resins</b>						
	x		SPR 45 VP	Phenyl Polysilsesquioxane				•	
	x		TMS 803	Trimethylsiloxy silicate					•
			<b>Silicone resin gels</b>						
	x		RG 100	Cyclopentasiloxane, Dimethicone/Vinyltrimethyl-siloxysilicate Crosspolymer	••	••	••		•

- Suited
- Well suited
- Ideally suited

# HAIR. SELECTION GUIDE: PROPERTIES

Product type		Properties						
Wacker-Belsil® name	INCI designations	Viscosity [mm <sup>2</sup> /s] (ca.)	Refractive index n <sub>D</sub> <sup>25</sup>	Density [g/cm <sup>3</sup> ] (*Bulk density)	Melting point *Softening point [°C] (ca.)	Flash point [°C]	Appearance	Physical state
<b>Volatile silicones</b>								
CM 040	Cyclopentasiloxane	4	1.398	0.95	N/A	77	clear/colorless	liquid
DM 0.65	Disiloxane	0.65	1.375	0.76	N/A	-6	clear/colorless	liquid
DM 1 PLUS	Dimethicone	1	1.384	0.83	N/A	32	clear/colorless	liquid
<b>Dimethicones &amp; Dimethiconols</b>								
DM 5	Dimethicone	5	1.397	0.93	N/A	118	clear/colorless	liquid
DM 10	Dimethicone	10	1.399	0.93	N/A	>172	clear/colorless	liquid
DM 20	Dimethicone	20	1.401	0.95	N/A	>233	clear/colorless	liquid
DM 50	Dimethicone	50	1.402	0.97	N/A	>250	clear/colorless	liquid
DM 100	Dimethicone	100	1.404	0.96	N/A	>275	clear/colorless	liquid
DM 350	Dimethicone	350	1.404	0.97	N/A	>300	clear/colorless	liquid
DM 500	Dimethicone	500	1.404	0.97	N/A	>300	clear/colorless	liquid
DM 1000	Dimethicone	1,000	1.404	0.97	N/A	>300	clear/colorless	liquid
DM 12500	Dimethicone	12,500	1.404	0.97	N/A	>320	clear/colorless	liquid
DM 60000	Dimethicone	60,000	1.404	0.97	N/A	>320	clear/colorless	liquid
DM 300000	Dimethicone	300,000	1.404	0.97	N/A	>320	clear/colorless	liquid/viscous fluid
DM 500000	Dimethicone	500,000	1.404	0.97	N/A	450	clear/colorless	liquid/viscous fluid
DM 1000000	Dimethicone	1,000,000	1.404	0.97	N/A	>320	clear/colorless	liquid/viscous fluid
DM 3112 VP	Dimethiconol, Sodium Dodecylbenzenesulfonate	200	N/A	1.00	N/A	N/A	milky white	emulsion (pH 5.5-7.5)
DM 60081 VP	Dimethiconol, TEA-Dodecylbenzenesulfonate	800	N/A	1.00	N/A	N/A	milky white	emulsion (pH 5.5-7.5)
DM 6008 VP	Dimethiconol, Sodium Dodecylbenzenesulfonate	1,300	N/A	1.00	N/A	N/A	milky white	emulsion (pH 5.5-7.5)
CM 1000	Cyclopentasiloxane, Dimethiconol	5,200	1.398	0.96	N/A	73	colorless/slightly hazy	liquid
CM 3092	Cyclopentasiloxane, Dimethiconol	3,100-7,300	1.397	0.96	N/A	70	colorless/slightly hazy	liquid
DM 3096	Dimethicone, Dimethiconol	5,200	1.399	0.95	N/A	139	colorless/slightly hazy	liquid
<b>Phenyl-modified silicones</b>								
PDM 20	Trimethylsiloxyphenyl Dimethicone	20	1.437	1.00	N/A	170	clear/colorless	liquid
PDM 350 VP	Trimethylsiloxyphenyl Dimethicone	350	1.464	1.05-1.10	N/A	240	clear/colorless	liquid
PDM 1000	Trimethylsiloxyphenyl Dimethicone	1,000	1.461	1.07	N/A	285	clear/colorless	liquid

Product type		Properties						
Wacker-Belsil® name	INCI designations	Viscosity [mm <sup>2</sup> /s] (ca.)	Refractive index n <sub>D</sub> <sup>25</sup>	Density [g/cm <sup>3</sup> ] (*Bulk density)	Melting point *Softening point [°C] (ca.)	Flash point [°C]	Appearance	Physical state
<b>Alkyl/alkoxy-modified silicones</b>								
CDM 3526 VP	C26-28 Alkyl Dimethicone	N/A	N/A	0.86 (at 100 °C)	35	183	cream-colored	gelatinous
CM 7026 Flakes VP	C26-28 Alkyl Methicone	N/A	N/A	0.83 (at 80 °C)	70	>150	white	solid
MM 8030 Flakes VP	C30-45 Alkyl Methicone	N/A	N/A	0.84 (at 100 °C)	80	252	white	solid
LDM 3107 VP	Lauryl Dimethicone	700-800	1.443	0.86	N/A	202	yellowish	liquid
SDM 5055 VP	Stearyl Dimethicone	400 (at 50 °C)	N/A	0.86 (at 50 °C)	30	198	white	solid
SDM 6022	Stearoxy Dimethicone, Dimethicone	N/A	N/A	0.84 (at 50 °C)	40	160	white	solid
SM 6018	Stearyl Methicone	N/A	N/A	0.85 (at 50 °C)	40	>100	white	solid
<b>Polyether-functional silicones</b>								
DMC 6031	PEG/PPG-25/25 Dimethicone	800	1.452	1.04	N/A	>100	clear/yellowish	liquid
DMC 6038	Bis-PEG 15-Methyl Ether Dimethicone	52.5 (at 80 °C)	N/A	1.05	30	241	white	solid
DMC 3071 VP	Cetyl PEG/PPG-15/15 Butyl Ether Dimethicone	1,000	1.440	0.96	N/A	159	clear/yellowish	liquid
<b>Amino-functional silicones</b>								
ADM 1100	Amodimethicone	4,000	1.405	0.99	N/A	140	clear/colorless	liquid
ADM 1600	Amodimethicone	1,200	1.408	0.99	N/A	101	clear/colorless	liquid
ADM 1650	Amodimethicone	1,000	1.408	0.99	N/A	118	clear/colorless	liquid
ADM 6057 E	Amodimethicone, Cetrimonium Chloride, Trideceth-10	10	N/A	1.00	N/A	N/A	milky white	emulsion (pH 7-9)
ADM 652	Amodimethicone	400	1.405	0.99	N/A	>100	clear/yellowish	liquid
ADM 653	Trimethylsiloxyamodimethicone	75	1.403	0.99	N/A	>100	clear/yellowish	liquid
ADM 656	Amodimethicone	25	1.410	0.99	N/A	>100	clear/yellowish	liquid
ADM 8020 VP	Amodimethicone, Trideceth-5, Glycerine, Trideceth-10	<50	N/A	1.00	N/A	N/A	clear/yellowish	emulsion (pH 5-6)
<b>Silicone resins</b>								
SPR 45 VP	Phenyl Polysilsesquioxane	N/A	Film: 1.569	0.65*	*>45	>100	colorless	solid, flakes
TMS 803	Trimethylsiloxy silicate	N/A	N/A	0.25*	N/A	N/A	white	solid, powder
<b>Silicone resin gels</b>								
RG 100	Cyclopentasiloxane, Dimethicone/Vinyltrimethylsiloxy silicate Crosspolymer	120,000	N/A	0.97	N/A	65	colorless/opaque	gel



Applications				Product type	Functions/benefits								
Shaving products	Skin care	Sunscreen	AP/deo	Wacker-Belsil® name	Conditioning	Anti-whitening	Lubricity	Softness	Shine	Emulsifier	Thickener	Moisturizer	Water resistance
				<b>Silicone resin gels</b>									
x	x	x	x	RG 100			x	x			x		x
x	x	x	x	RPG 33				x			x		x
				<b>Silicone polyglycosides</b>									
	x	x	x	SPG 128 VP			x	x		x			
	x	x	x	SPG 130 VP			x	x		x			
	x	x		VSR 100 VP		x	x	x		x			x
				<b>Pyrogenic silica</b>									
x	x	x	x	HDK® N20							x		
x	x	x	x	HDK® H15							x		
x	x	x	x	HDK® H18							x		
x	x	x	x	HDK® H20							x		

Wacker-Belsil® and HDK® are registered trademarks of Wacker Chemie AG

# SKIN. SELECTION GUIDE: PROPERTIES

Product type		Properties						
Wacker-Belsil® name	INCI designations	Viscosity [mm <sup>2</sup> /s] (ca.)	Refractive index n <sub>D</sub> <sup>25</sup>	Density [g/cm <sup>3</sup> ] (*Bulk density)	Melting point *Softening point [°C] (ca.)	Flash point [°C]	Appearance	Physical state
<b>Volatile silicones</b>								
CM 040	Cyclopentasiloxane	4.0	1.398	0.95	N/A	77	clear/colorless	liquid
DM 0.65	Disiloxane	0.65	1.375	0.76	N/A	-6	clear/colorless	liquid
DM 1 Plus	Dimethicone	1.0	1.384	0.83	N/A	32	clear/colorless	liquid
<b>Dimethicones &amp; Dimethiconols</b>								
DM 5-1000000	Dimethicone	5-1,000,000	1.397-1.404	0.93-0.97	N/A	118- >320	clear/colorless	liquid
DM 3112 VP	Dimethiconol, Sodium Dodecylbenzenesulfonate	200	N/A	1.00	N/A	N/A	milky white	emulsion (pH 5.5-7.5)
DM 60081 VP	Dimethiconol, TEA-Dodecylbenzenesulfonate	800	N/A	1.00	N/A	N/A	milky white	emulsion (pH 5.5-7.5)
CM 1000	Cyclopentasiloxane, Dimethiconol	5,200	1.398	0.96	N/A	73	colorless/slightly hazy	liquid
CM 3092	Cyclopentasiloxane, Dimethiconol	3,100-7,300	1.397	0.96	N/A	70	colorless/slightly hazy	liquid
DM 3096	Dimethicone, Dimethiconol	5,200	1.399	0.95	N/A	139	colorless/slightly hazy	liquid
<b>Phenyl-modified silicones</b>								
PDM 20	Trimethylsiloxyphenyl Dimethicone	20	1.437	1.00	N/A	170	clear/colorless	liquid
PDM 350 VP	Trimethylsiloxyphenyl Dimethicone	350	1.464	1.05-1.10	N/A	240	clear/colorless	liquid
PDM 1000	Trimethylsiloxyphenyl Dimethicone	1,000	1.461	1.07	N/A	285	clear/colorless	liquid
<b>Alkyl/alkoxy-modified silicones</b>								
CDM 3526 VP	C26 – 28 Alkyl Dimethicone	N/A	N/A	0.86 (at 100 °C)	35	183	cream-colored	gelatinous
CM 7026 Flakes VP	C26 – 28 Alkyl Methicone	N/A	N/A	0.83 (at 80 °C)	70	>150	white	solid
MM 8030 Flakes VP	C30 – 45 Alkyl Methicone	N/A	N/A	0.84 (at 100 °C)	80	252	white	solid
LDM 3107 VP	Lauryl Dimethicone	700-800	1.443	0.86	N/A	202	yellowish	liquid
SDM 5055 VP	Stearyl Dimethicone	400 (at 50 °C)	N/A	0.86 (at 50 °C)	30	198	white	solid
SDM 6022	Stearoxy Dimethicone, Dimethicone	N/A	N/A	0.84 (at 50 °C)	40	160	white	solid
SM 6018	Stearyl Methicone	N/A	N/A	0.85 at 50 °C)	40	>100	white	solid
<b>Polyether-functional silicones</b>								
DMC 6031	PEG/PPG-25/25 Dimethicone	800	1.452	1.04	N/A	>100	clear/yellowish	liquid
DMC 6038	Bis-PEG 15-Methyl Ether Dimethicone	52.5 (at 80 °C)	N/A	1.05	30	241	white	solid
DMC 3071 VP	Cetyl PEG/PPG-15/15 Butyl Ether Dimethicone	1,000	1.440	0.96	N/A	159	clear/yellowish	liquid

Product type		Properties						
Wacker-Belsil® name	INCI designations	Viscosity [mm <sup>2</sup> /s] (ca.)	Refractive index n <sub>D</sub> <sup>25</sup>	Density [g/cm <sup>3</sup> ] (*Bulk density)	Melting point *Softening point [°C] (ca.)	Flash point [°C]	Appearance	Physical state
<b>Silicone resins</b>								
PMS MK Powder	Polymethylsilsesquioxane	N/A	Film: 1.520	0.50*	*>50	N/A	white	solid, powder
SPR 45 VP	Phenyl Polysilsesquioxane	N/A	Film: 1.569	0.65*	*>45	>100	colorless	solid, flakes
TMS 803	Trimethylsiloxysilicate	N/A	N/A	0.25*	N/A	N/A	white	solid, powder
<b>Silicone resin gels</b>								
RG 100	Cyclopentasiloxane, Dimethicone/vinyltrimethylsiloxysilicate Crosspolymer	120,000	N/A	0.97	N/A	65	colorless/opaque	gel
RPG 33	Cyclopentasiloxane and Vinyltrimethylsiloxysilicate Stearyl Dimethicone Crosspolymer	N/A	N/A	0.59*	N/A	48	white	powder
<b>Silicone polyglycosides</b>								
SPG 128 VP	Cyclopentasiloxane, Caprylyl Dimethicone Ethoxy Glucoside	50	1.400	0.96	N/A	72	yellowish	liquid
SPG 130 VP	Dimethicone, Caprylyl Dimethicone Ethoxy Glucoside	450	1.407	0.96	N/A	>118	yellowish	liquid
VSR 100 VP	Cyclopentasiloxane, Siliconpolyglucoside-1, Trimethylsiloxysilicate	50	1.404	0.99	N/A	>70	yellowish	liquid
<b>Pyrogenic silica</b>								
HDK® N20	Silica	N/A	N/A	0.02-0.13*	N/A	N/A	white	solid, powder
HDK® H15	Silica Dimethyl Silylate	N/A	N/A	0.03-0.1*	N/A	N/A	white	solid, powder
HDK® H18	Silica Dimethyl Silylate	N/A	N/A	0.03-0.1*	N/A	N/A	white	solid, powder
HDK® H20	Silica Dimethyl Silylate	N/A	N/A	0.03-0.1*	N/A	N/A	white	solid, powder



Applications			Product type	Functions/benefits								
Emulsion products <sup>1</sup>	Sticks/ anhydrous products <sup>2</sup>	Powder products <sup>3</sup>	Wacker-Belsil® name	Conditioning	Anti-whitening	Lubricity	Softness	Shine	Emulsifier	Thickener	Moisturizer	Water resistance
			<b>Silicone resin gels</b>									
x	x		RG 100			x	x			x		x
x	x	x	RPG 33				x			x		x
			<b>Silicone polyglycosides</b>									
x			SPG 128 VP			x	x		x			
x			SPG 130 VP			x	x		x			
x			VSR 100 VP		x	x	x		x			x
			<b>Pyrogenic silica</b>									
x	x	x	HDK® N20							x		
x	x	x	HDK® H15							x		
x	x	x	HDK® H18							x		
x	x	x	HDK® H20							x		

<sup>1</sup>For example: foundation, mascara

<sup>2</sup>For example: lipstick, eye-shadow stick, concealer, lip gloss

<sup>3</sup>For example: face powder, eye-shadow

# COLOR COSMETICS. SELECTION GUIDE: PROPERTIES

Product type		Properties						
Wacker-Belsil® name	INCI designations	Viscosity [mm <sup>2</sup> /s] (ca.)	Refractive index n <sub>D</sub> <sup>25</sup>	Density [g/cm <sup>3</sup> ] (*Bulk density)	Melting point *Softening point [°C] (ca.)	Flash point [°C]	Appearance	Physical state
<b>Volatile silicones</b>								
CM 040	Cyclopentasiloxane	4.0	1.398	0.95	N/A	77	clear/colorless	liquid
DM 0.65	Disiloxane	1.0	1.375	0.76	N/A	-6	clear/colorless	liquid
DM 1 Plus	Dimethicone	1.0	1.384	0.83	N/A	32	clear/colorless	liquid
<b>Dimethicones &amp; Dimethiconols</b>								
DM 5-1000000	Dimethicone	5-1,000,000	1.397-1.404	0.93-0.97	N/A	118->320	clear/colorless	liquid
DM 3112 VP	Dimethiconol, Sodium Dodecylbenzenesulfonate	200	N/A	1.00	N/A	N/A	milky white	emulsion (pH 5.5-7.5)
DM 60081 VP	Dimethiconol, TEA-Dodecylbenzenesulfonate	800	N/A	1.00	N/A	N/A	milky white	emulsion (pH 5.5-7.5)
CM 1000	Cyclopentasiloxane, Dimethiconol	5,200	1.398	0.96	N/A	73	colorless/slightly hazy	liquid
CM 3092	Cyclopentasiloxane, Dimethiconol	3,100-7,300	1.397	0.96	N/A	70	colorless/slightly hazy	liquid
DM 3096	Dimethicone, Dimethiconol	5,200	1.399	0.95	N/A	139	colorless/slightly hazy	liquid
<b>Phenyl-modified silicones</b>								
PDM 20	Trimethylsiloxyphenyl Dimethicone	20	1.437	1.00	N/A	170	clear/colorless	liquid
PDM 350 VP	Trimethylsiloxyphenyl Dimethicone	350	1.464	1.05-1.10	N/A	240	clear/colorless	liquid
PDM 1000	Trimethylsiloxyphenyl Dimethicone	1,000	1.461	1.07	N/A	285	clear/colorless	liquid
<b>Alkyl/alkoxy-modified silicones</b>								
CDM 3526 VP	C26 – 28 Alkyl Dimethicone	N/A	N/A	0.86 (at 100 °C)	35	183	cream-colored	gelatinous
CM 7026 Flakes VP	C26 – 28 Alkyl Methicone	N/A	N/A	0.83 (at 80 °C)	70	>150	white	solid
MM 8030 Flakes VP	C30 – 45 Alkyl Methicone	N/A	N/A	0.84 (at 100 °C)	80	252	white	solid
LDM 3107 VP	Lauryl Dimethicone	700-800	1.443	0.86	N/A	202	yellowish	liquid
SDM 5055 VP	Stearyl Dimethicone	400 (at 50 °C)	N/A	0.86 (at 50 °C)	30	198	white	solid
SDM 6022	Stearoxy Dimethicone, Dimethicone	N/A	N/A	0.84 (at 50 °C)	40	160	white	solid
SM 6018	Stearyl Methicone	N/A	N/A	0.85 (at 50 °C)	40	>100	white	solid
<b>Polyether-functional silicones</b>								
DMC 6031	PEG/PPG-25/25 Dimethicone	800	1.452	1.04	N/A	>100	clear/yellowish	liquid
DMC 6038	Bis-PEG 15-Methyl Ether Dimethicone	N/A	N/A	1.05	30	241	white	solid
DMC 3071 VP	Cetyl PEG/PPG-15/15 Butyl Ether Dimethicone	1,000	1.440	0.96	N/A	159	clear/yellowish	liquid

Product type		Properties						
Wacker-Belsil® name	INCI designations	Viscosity [mm <sup>2</sup> /s] (ca.)	Refractive index n <sub>D</sub> <sup>25</sup>	Density [g/cm <sup>3</sup> ] (*Bulk density)	Melting point *Softening point [°C] (ca.)	Flash point [°C]	Appearance	Physical state
<b>Silicone resins</b>								
PMS MK Powder	Polymethylsilsesquioxane	N/A	Film: 1.520	0.50*	*>50	N/A	white	solid, powder
SPR 45 VP	Phenyl Polysilsesquioxane	N/A	Film: 1.569	0.65*	*>45	>100	colorless	solid, flakes
TMS 803	Trimethylsiloxysilicate	N/A	N/A	0.25*	N/A	N/A	white	solid, powder
<b>Silicone resin gels</b>								
RG 100	Cyclopentasiloxane, Dimethicone/vinyltrimethylsiloxysilicate Crosspolymer	120,000	N/A	0.97	N/A	65	colorless/opaque	gel
RPG 33	Cyclopentasiloxane and Vinyl dimethyl/Trimethylsiloxysilicate Stearyl Dimethicone Crosspolymer	N/A	N/A	0.59*	N/A	48	white	powder
<b>Silicone polyglycosides</b>								
SPG 128 VP	Cyclopentasiloxane, Caprylyl Dimethicone Ethoxy Glucoside	50	1.400	0.96	N/A	72	yellowish	liquid
SPG 130 VP	Dimethicone, Caprylyl Dimethicone Ethoxy Glucoside	450	1.407	0.96	N/A	>118	yellowish	liquid
VSR 100 VP	Cyclopentasiloxane, Siliconpolyglucoside-1, Trimethylsiloxysilicate	50	1.404	0.99	N/A	>70	yellowish	liquid
<b>Pyrogenic silica</b>								
HDK® N20	Silica	N/A	N/A	0.02-0.13*	N/A	N/A	white	solid, powder
HDK® H15	Silica Dimethyl Silylate	N/A	N/A	0.03-0.1*	N/A	N/A	white	solid, powder
HDK® H18	Silica Dimethyl Silylate	N/A	N/A	0.03-0.1*	N/A	N/A	white	solid, powder
HDK® H20	Silica Dimethyl Silylate	N/A	N/A	0.03-0.1*	N/A	N/A	white	solid, powder

The data presented in this brochure are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately upon receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The information given in this brochure should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

# WACKER SILICONES

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