



## Technical Data Sheet

### DOWSIL™ EP-9610 Cosmetic Powder

INCI NAME: Dimethicone Crosspolymer

#### Features & Benefits

- Silicone elastomer powder, spherical shape
- Superior softness
- Less agglomeration, easy to disperse
- Provides silky, powdery, non-greasy skin feel
- Enhances viscosity or rheology of silicones, oils or water-in-oil/silicone emulsions
- Moderate sebum absorption
- Easy to formulate in various media
- Can be formulated in various forms; powder, emulsion, oil, wax products
- Cold processing

#### Composition

- Crosslinked polydimethylsiloxane polymer

#### Applications

- Skin care
- Color Cosmetics (foundations, loose-, pressed- and compact-powders, eye shadow, lipsticks, bronzing products)
- Sun care
- Antiperspirants/deodorants
- Many other potential formulations (examples: hair care, styling aids, etc.)

#### Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Appearance		White powder
Hardness (JIS Type A)		10
Bulk Density	g/cm <sup>3</sup>	0.25–0.30
Average Particle Size	µm	1–8
Active Content	%	100
Cyclotetrasiloxane (D4) Level	%	< 0.1
Cyclopentasiloxane (D5) Level	%	< 0.1
China Regulation		Listed in the catalogue of Cosmetic Ingredients Used in China

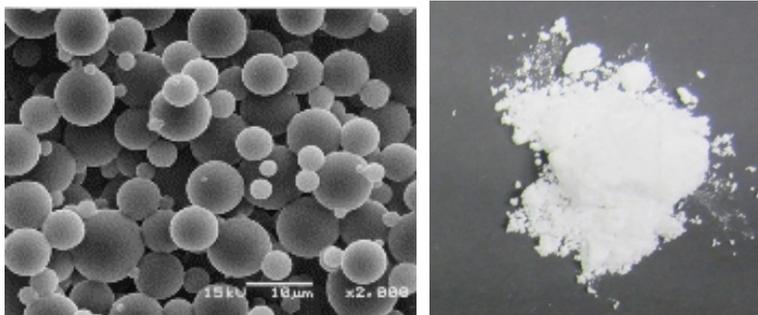
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DOWSIL™ EP-9610 Cosmetic Powder

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Photo of Powder  
(SEM, Appearance)



Description

Appearance of Powder / Oil Blend

	Powder Content in Dimethicone 6mm <sup>2</sup> /s (wt%)				
	12.5	18.75	20	22.5	25
DOWSIL™ EP-9610 Cosmetic Powder with Dimethicone (6 mm <sup>2</sup> /s)					
Texture	Liquid	Viscous Liquid	Paste	Waxy Paste	Sticky Paste
Viscosity (mPa·s at 1s <sup>-1</sup> )			81k	151k	235k

Oil Absorbency (g Oil / g Powder)

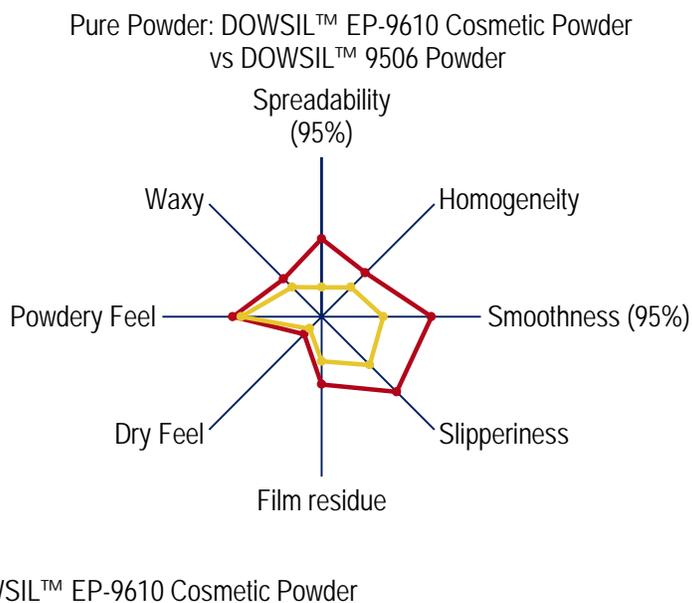
(g Oil / g E-Powder)	DOWSIL™ EP-9610 Cosmetic Powder	DOWSIL™ 9506 Powder
Powder Hardness (JIS A)	10	30
Sunflower Oil	0.34	0.81
Ricinus Oil	0.26	0.37
Triethylhexanoin	0.70	1.25
Cetylethylhexanoate	0.61	1.25
Squalene	0.44	0.95
Mineral Oil	0.53	0.99
Dimethicone (6 mm <sup>2</sup> /s)	2.56	3.32
Dimethicone (2 mm <sup>2</sup> /s)	3.09	4.01
Cyclopentasiloxane (D5)	3.72	4.51

Recommended Use Level

2-20%

Sensory Performance

DOWSIL™ EP-9610 Cosmetic Powder exhibits higher smoothness and easier spreading than DOWSIL™ 9506 Powder.



Formulation Tips

DOWSIL™ EP-9610 Cosmetic Powder is easy to use. The powder can be added directly to the oil phase ingredients without doing a premix in another fluid. For powdery type formulations, DOWSIL™ EP-9610 Cosmetic Powder can be grinded directly with other powders. See formulation examples.

Table 1: Face Serum - wow powdery feel

Trade Name / Supplier	INCI Name	Wt. %
<b>Phase A</b>		
	Water/Aqua	56.09
ACULYN™ Siltouch Rheology Modifier / Dow	Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer (and) Dimethicone (and) Trideceth-6 (and) PEG/PPG-18/18 Dimethicone	1.50
ACULYN™ Excel Rheology Modifier / Dow	Acrylates Copolymer	1.00
<b>Phase B</b>		
EcoSmooth™ OptiTouch Sensorial and Optical Enhancer / Dow	Ethylene/Octene Copolymer (and) Ethylene/sodium Acrylate Copolymer	9.0
<b>Phase C</b>		
Cetiol LC / BASF	Coco-Caprylate / Caprate	2.00
Crodamol GTCC / Croda	Caprylic / Capric Triglyceride	1.00
DOWSIL™ EP-9610 Cosmetic Powder / Dow	Dimethicone Crosspolymer	9.00
XIAMETER™ PMX-200 Silicone Fluid 2 CS / Dow	Dimethicone	18.00
<b>Phase D</b>		
NEOLONE™ PH 100 Preservative / Dow	Phenoxyethanol	0.83
Hydrolite 8 / Symrise	Caprylyl Glycol	0.68
<b>Phase E</b>		
dl-alpha-Tocopheryl Acetate / DSM	Tocopheryl Acetate	0.30
Extrapone Acai/Symrise	Propylene Glycol (and) water (Aqua) (and) Maltodextrin (and) Euterpe Oleracea Fruit Extract	0.10
SymBright 2036 / Symrise	Sclareolide	0.20
Magique / Symrise	Perfume/Fragrance	0.30

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DOWSIL™ EP-9610 Cosmetic Powder

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Formulation  
Examples (Cont.)

Table 2: Loose Powder

Trade Name / Supplier	INCI Name	Wt. %
<b>Phase A</b>		
DOWSIL™ EP-9610 Cosmetic Powder / Dow	Dimethicone Crosspolymer	10.00
DOWSIL™ 5562 Carbinol Fluid / Dow	Bis-Hydroxyethoxypropyl Dimethicone	6.00
<b>Phase B</b>		
Luzenac Pharma UM / IMERYS Talc	Talc	75.87
DOWSIL™ VM-2270 Aerogel Fine Particles / Dow	Silica Silylate	2.00
Magnesium Hydroxide Carbonate Heavy/Merck KGaA	Magnesium Carbonate Hydroxide	1.33
Unipure White LC 981 / Sensient Cosmetic Technologies	Titanium dioxide	2.00
Unipure Brown LC 887 / Sensient Cosmetic Technologies	Iron oxides	2.50
Paratexin M / Azelis UK	Methylparaben	0.20
Paratexin P / Azelis UK	Propylparaben	0.10

Handling  
Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

**WARNING:** DOWSIL™ EP-9610 Cosmetic Powder is a fine powder and needs to be handled with certain precautions. Avoid dust accumulation. Eliminate sources of ignition. Product can build up static electricity which may be discharged as a spark. If this product is added to a solvent, precautionary measures need to be taken to eliminate sparks.

Usable Life and  
Storage

When stored at or below 32°C (90°F) in the original unopened containers, this product has a usable life of 27 months from the date of production.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health And  
Environmental  
Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, [consumer.dow.com](http://consumer.dow.com) or consult your local Dow representative.

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