

# *Dow Corning*<sup>®</sup> 9509 Silicone Elastomer Suspension

## **FEATURES**

- Water-based suspension of elastomeric silicone powder
- Ease of formulation
- Cold processing
- Not tested on animals
- Contains no animal derived ingredients
- No genetically modified organism (GMO)

## **BENEFITS**

- Imparts silky feel to skin
- Reduces shine on skin (matt)
- Effectively controls sebum

INCI NAME: Dimethicone/Vinyldimethicone Crosspolymer (and) C12-14 Pareth-12

## **APPLICATIONS**

- *Dow Corning*<sup>®</sup> 9509 Silicone Elastomer Suspension has been developed to facilitate the incorporation of an elastomeric silicone powder into water-based cosmetic products. It can be used in skin care, color cosmetics and body wash applications.

## **TYPICAL PROPERTIES**

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

<b>Property</b>	<b>Unit</b>	<b>Value</b>
Silicone content	wt%	63
Viscosity	mPa-s	5000
Color		Milky white
pH		3
Particle size D50 (Horiba LA-500)	microns	3
Suitable diluent		Water
Emulsifier type		Non-ionic
*Preservative system		Phenoxyethanol, Chlorophenesin, Methyl Paraben, Benzoic Acid
*Microbiological Evaluation	cfu/ml	10 maximum

\*See Description and How To Use paragraphs

## **DESCRIPTION**

*Dow Corning*<sup>®</sup> 9509 Silicone Elastomer Suspension is a 63% non-ionic suspension of a spherical silicone elastomer powder in water.

## **HOW TO USE**

*Dow Corning*<sup>®</sup> 9509 Silicone Elastomer Suspension should be formulated into the aqueous phase. Preferably it should be added last while mixing using moderate shear. The recommended addition level is 3 to 6% silicone active level.

## HOW TO APPLY

The suspension can be added into the aqueous phase anytime but preferably at the end of the process. Also low molecular weight lipophilic fluids can be incorporated into the elastomer by direct addition to the suspension.

## PATENT DATA

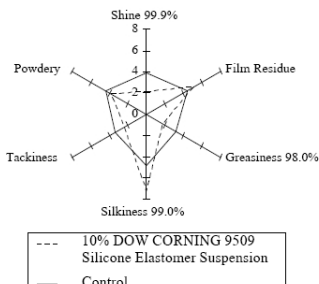
Use of this product in applications which fall within the scope of US 5,871,761 and EP 829,253 is permitted under an existing license agreement between the patentee and Dow Corning.

## BENEFITS

### 1. Sensory Data

A hydrogel containing 10% *Dow Corning*® 9509 Silicone Elastomer Suspension provides a less greasy and silkier feel to the skin compared to the control. The skin is also less shiny.

**Figure 1: After absorption.**

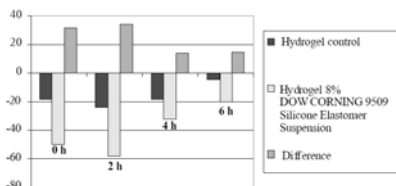


### 2. Sebum Control Data

A hydrogel containing 8% *Dow Corning* 9509 Elastomer Suspension shows a decrease in the sebum present on the forehead over a 6 hour period compared to a control formulation containing volatile silicone oil.

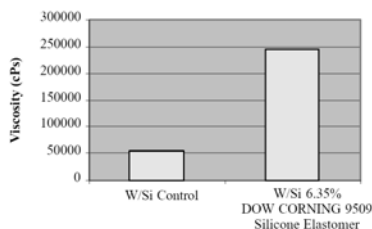
A similar effect was achieved using an oil-in-water cooling gel containing 10% *Dow Corning* 9509 Silicone Elastomer Suspension compared to a control containing mineral oil.

**Figure 2: Sebum absorption on forehead hydrogel.**



3. Thickening Data Addition of 6.35% *Dow Corning* 9509 Silicone Elastomer Suspension (4% active) into the water phase of a water-in-silicone emulsion can increase the viscosity of the formulation by 454 %.

**Figure 3: Thickening.**



## HANDLING

### PRECAUTIONS

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at [dowcorning.com](http://dowcorning.com). You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

### USABLE LIFE AND STORAGE

When stored between 5°C (41°F) and 32°C (89°F) in the original unopened containers, this product has a usable life of 12 months from the date of production.

### PACKAGING INFORMATION

This product is available in 16kg pails. Samples are available in 100g.

## 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 Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

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

## LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

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