

Dow Corning[®] 5562 Carbinol Fluid

FEATURES

- Processing aid for particulate containing formulations
- Polar fluid which provides unique compatibility and aesthetics
- Low formulated odor
- Imparts hydrophilicity and wetting
- Clear, colorless carbinol fluid
- Unique feel characteristic
- Compatibilizer

BENEFITS

- Provides superior particulate suspension, with easier formulation capability compared to products such as castor oil
- Enhances SPF in sun care formulations
- Wide range of compatibilities with both polar and non-polar solvents
- Non-irritating compared to polar organic materials
- Moisturization
- Smoother, less tacky and more substantive than linear silicones
- Lighter and more lubricious than polar silicones
- Stable in acid/base conditions
- Detackification
- Aqueous formulation stability
- Enhances fragrance release

COMPOSITION

- Silicone polymer with terminal carbinol functionality (ABA), see Figure 1

INCI Name: Bis-Hydroxyethoxypropyl Dimethicone

APPLICATIONS

- Color cosmetics
- Sun care
- Face and body care
- Antiperspirants and deodorants
- Cuticle coat for hair

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.

CTM ¹	Property	Unit	Value
0176	Appearance		Clear to slightly hazy
004A	Viscosity at 25°C (77°F)	mm ² /s	~50
	Refractive index		1.41
0006	Flash point - open cup	°C	>80
	Cyclotetrasiloxane (D4) content	%	<0.94

1. CTM: Corporate Test Method, copies of CTMs are available on request.

DESCRIPTION

Dow Corning[®] 5562 Carbinol Fluid is a carbinol functional silicone fluid. This material is unique due to its polar organic substituents. The silicone and organic combination provides multiple benefits in personal care applications. This moderately polar material has a novel compatibility profile (see Table 1). This product also acts as a superior suspension aid for pigments, salts, and sunscreens.

HOW TO USE

This is a low viscosity fluid that is easily incorporated into a variety of personal care formulations.

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 www.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 at or below 32°C (90°F) in the original unopened containers, this product has a usable life of 24 months from the date of production.

PACKAGING INFORMATION

This product is available in 200 kg drums and 15 kg pails.

Samples are available in 500 ml bottles.

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, www.dowcorning.com or consult your local Dow Corning representative.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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Table 1: Ratios are for *Dow Corning 5562 Carbinol Fluid*: other material.

Material	1:9	5:5	9:1
C-12-15 Alkyl benzoate	C ¹	C	C
Coco-caprylate/caprate	C	C	C
Diisostearyl fumarate	C	C	C
Isocetyl stearate	C	NC ²	NC
Octylstearate	C	NC	NC
Glyceryl trioctanoate	C	C	C
Octyl methoxycinnamate	NC	NC	C
Isododecane	C	C	C
Oleyl alcoholN	C	C	C
<i>Dow Corning</i> [®] 1501 Fluid	C	NC	NC
XIAMETER [®] PMX-0245 Cyclopentasiloxane	C	C	C
<i>Dow Corning</i> [®] 556 Fluid	C	C	C
Water	NC	NC	NC

1. C = Compatible.

2. NC = Not compatible.

Figure 1: Chemical structure of *Dow Corning 5562 Carbinol Fluid*

