ARGAN Co.

SILAGEL SILICONE ELASTOMER GELS

SILAGEL Silicone Elastomer Gels are silicone-based materials optimized for cosmetic and personal care applications. These products are highly compatible with a wide of materials, including sunscreens, natural oils, colorants, etc. They can be used in a wide range of applications to provide luxurious, velvety, feel and long lasting wear and may be formulated into oil-in-water emulsions, water-in- silicone emulsions, water-in-oil emulsions and anhydrous products.

Each grade of **SILAGEL** provides a different texture and skinfeel, with varying degrees of film-forming capabilities, dry times and viscosities; D25 providing the lightest feel, while the PD15 and PD15M being more occlusive. Argan also offers a PEG-free Silagel grade for aqueous systems, WC21 .

In skin care and color cosmetics, the composition of **SILAGEL** results in not only a smoother feel, but a smoother finish as well, helping to conceal small lines, pores and imperfections.





PROPERTIES

	SILAGEL D25	SILAGEL PD15	SILAGEL PD15M	SILAGEL WC21
Dimethicone/Vinyl Dimethicone Crosspolymer (CAS 243137-53-3, 156065-02-0)	20-30%	12-16%	12-16%	10-15%
Dimethicone (CAS 63148-62-9)	70-80%	15-21%	14-18%	50- 60%
Aqua (CAS 7732-18-5)	--	--	--	25-35%
Cyclopentasiloxane (CAS 541-02-6)	--	63-73%	63-73%	--
Hydrogenated Castor Oil Isostearate (CAS 868047-49-8)	--	--	1-3%	--
Polyglyceryl-10 Myristate (CAS 87390-32-7)	--	--	--	3-5%
1,3-Butylene Glycol (CAS 107-88-0)	--	--	--	1-3%
Appearance	Translucent Gel	Translucent Gel	Whitish Gel	Pale yellowish Emulsion
Odor	Odorless	Odorless	Odorless	Characteristic
Viscosity (HAAKE RotoVisco1 Plate P35)	100,000~200,000 cPs	100,000~300,000 cPs	100,000~400,000 cPs	5,000~ 35,000 cPs
Non-Volatiles, (165^{0}C for 3 hrs)	50-80%	10-40 %	10-40%	--
pH	--	--	--	5 - 9

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FORMULATION

- SILAGELs may be formulated into oil-in-water emulsions, water-in- silicone emulsions, water-in-oil emulsions and anhydrous products
- They may be added to the oil phase or silicone phase in an emulsion formulation or post-added to emulsions provided the emulsion is viscous enough for the SILAGEL to be dispersed
- For ease of use, its viscosity may be reduced by blending with dimethicone or cyclomethicone
- SILAGELs are dispersible in a variety of liquids and may be formulated with organic oils and silicone-based
- Because the elastomer is stable, SILAGEL may be subjected to heat for a short duration. When heat is used, the material should be processed in an enclosed vessel to prevent the cyclopentasiloxane from volatilizing; the vessel should be inerted (Nitrogen Blanket) at temperatures over 60°C

March 6, 2019 rev