

**INDUSTRY
SOLUTIONS.**


**Consumer
Care
Solutions.**

CHT

**SMART CHEMISTRY
WITH CHARACTER.**

SILICONE CROSSPOLYMER GELS

WORLD-CLASS AESTHETICS AND ELEGANCE



Silicone elastomer gels are an important raw material for modern high-end cosmetic products such as BB creams, lip-gloss, pencils, foundations, primers, soft focus and anti-aging face creams for an even matte finish.

Benefits of adding crosspolymers to formulations:

- ▶ Richer look to a cream or lotion (whiteness)
- ▶ Creates viscosity in the oil phase
- ▶ Improves emulsion stability
- ▶ Changes sensory profile from oily to pleasant silky feeling
- ▶ Breathable film-forming
- ▶ Increases moisture retention
- ▶ Reduces gloss to a silky matte finish
- ▶ Water repellency / wash-off resistance
- ▶ Boost the SPF level
- ▶ Soft focus or blurring effect

SILICONE ELASTOMER GELS

Unique chemistry
for the highest
performance silicone

SPECIALTY ENGINEERED

Formulation Lab

CHT offers you an international team of highly skilled experts in the field of specialty silicones for personal care products. We are the first choice when it comes to expertise, performance, product range, and sustainability. However, what really sets us apart is our responsibility and dedication to every single customer. We cater to large enterprises as well as small niche producers with the same diligence. Our experts will personally take on every challenge when it comes to finding the solution that is best for you.

With state-of-the-art R&D and applications labs, our team is ready to help solve your current formulation troubles or customize a product that will set your formulations apart from the competition. Our silicone experts are eager to meet your challenge.

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CLOSE TO OUR CUSTOMERS

Head Quarters | CHT Germany GMBH



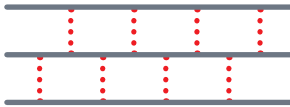
SENSORY PROFILE

Rich

Silky

INCI STRUCTURE

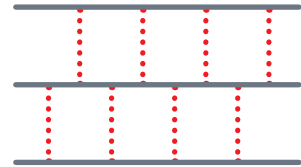
Dimethicone Crosspolymer



Polysilicone-11



Dimethicone/ Vinyl Dimethicone Crosspolymer



The carrier of the crosspolymer effects the sensory profile and the final formulation. Therefore, the right choice of carrier is essential and CHT offers infinite options.

Dimethicone

- ▶ Heat stable up to 50°
- ▶ D4/D5 free

Isododecane

- ▶ D4/D5 free

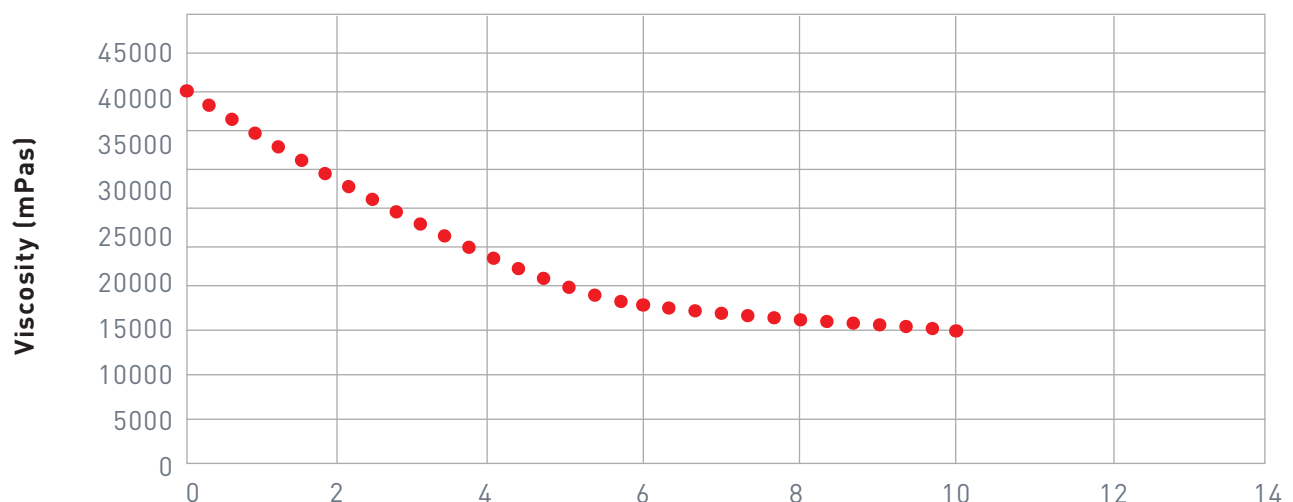
Cyclopentasiloxane

- ▶ Light feeling
- ▶ Only cold process

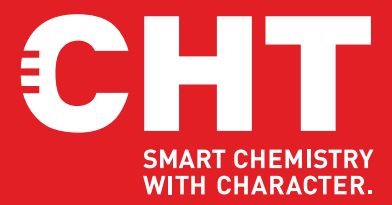
SPECIALTY ENGINEERED

- ▶ Special INCI
- ▶ Specific feel or viscosity
- ▶ Actives solubility
- ▶ Blends

The unique flow properties of crosspolymer gels provides a luxurious sensory profile. As seen below, crosspolymer gels viscosity decreases with increasing shear, leading to a one-of-a-kind exquisite finish. They are excellent oil-based thickeners giving products a rich but light feel.



PRODUCT	INCI	APPLICATION				SENSORY PROFILE
		Face Cream	Color Cosmetic	Sun Care	Hair Care	
CROSSPOLYMER GELS						
BeauSil GEL 8014	Dimethicone and Dimethicone Crosspolymer	X	X	X	X	waxy, creamy, silky
BeauSil GEL 8017	C13-15 Alkane, Isododecane, Caprylyl Methicone and Dimethicone/Vinyl Dimethiconecrosspolymer	X	X	X		creamy, silky, powdery
BeauSil GEL 8039	Cyclopentasiloxane and Dimethicone Crosspolymer	X	X	X		creamy, waxy, silky
BeauSil GEL 8003	Cyclopentasiloxane and Dimethicone/Vinyl Dimethicone Crosspolymer	X	X	X		light, silky, powdery
BeauSil GEL 8094	Isododecane and Dimethicone/Vinyl Dimethicone Crosspolymer	X	X	X		silky, powdery
BeauSil GEL 8085	Cyclopentasiloxane and Polysilicone-11	X	X	X		light, silky, powdery
EMULSIFIED CROSSPOLYMER BLENDS						
BeauSil GEL 8186 EM	Dimethicone, Polysilicone 11, Decyl Glucoside and Butylene Glycol	X	X	X		silky, rich
BeauSil GEL 8142 EM	Isododecane, Dimethicone/Vinyl Dimethicone Crosspolymer, Ceteth-10, and Laureth-4	X	X	X		creamy, dry, powdery
SMOOTHING BEADS						
BeauSil BEADS 2600	Dimethicone and Dimethicone/Vinyl Dimethicone Crosspolymer	X				powdery, dry
BeauSil BEADS 8100 EM	Dimethicone/Vinyldimethicone Crosspolymer and C12-14 Pareth 12	X	X			powdery, dry



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