

solvent, gloss agent, emollient, film former

Application Sheet

Creasil® CG is a range of cosmetic grade solvents and emollients consisting of synthetic hydrocarbons. Creasil® CG products are purified aliphatic hydrocarbons with highly branched structure. With the variety of molecular weights, they have different volatility characteristics and drying times. The Creasil® CG products vary from low viscosity liquids with high volatility to non-volatile high viscosity materials.

The range also includes two derivatives, Creasil® 7 ID and Creasil® 7 IE, which are film formers designed to be used in long lasting colour care applications.

Trade Name	INCI Name
Creasil® 7 ID	Isododecane (and) Dimethicone (and) Polyethacrylate
Creasil® 7 IE	Isoeicosane (and) Dimethicone (and) Polyethacrylate
Creasil® IC CG	Polyisobutene
Creasil® ID CG	Isododecane
Creasil® IE CG	Isoeicosane
Creasil® IH CG	Isohexadecane
Creasil® IP CG	Polyisobutene

Trade Name	Aliphatic Hydrocarbon	Viscosity (20°C)	Volatility	Refractive Index (20°C)	Feel	Residue
Creasil® ID CG	C12	3-5 mPa.s	highly	1,418 - 1,424	clean	almost none
Creasil® IH CG	C16	6-8 mPa.s	slightly	1,419 - 1,445	light, silky	slight
Creasil® IE CG	C20	8-12 mPa.s	non-volatile	1,430 - 1,460	satiny, smooth	moderate
Creasil® IC CG	C68	25-35 Pa.s	non-volatile	1,470 - 1,510	smooth, soft	significant, occlusive
Creasil® IP CG	C156	8-12 Pa.s (80°C)	non-volatile	1,480 - 1,520	soft, waxy	heavy, occlusive

Benefits

- enhance application qualities
- improve cleansing qualities (Creasil® ID CG and IH CG)
- long lasting film formation (Creasil® 7 ID and 7 IE)
- high shine and emolliency (Creasil® IC CG and IP CG)

Properties

- synthetic
- branched structure
- safe and non-irritating



Application Areas

Skin care

Creasil® ID CG and Creasil® IH CG are good solvents for cleansing impurities and oil from the skin as well as for removing make-up. Creasil® ID CG is highly volatile so it is more appropriate for formulations where non-residual application is desired whereas Creasil® IH CG has more emollient feel and gives a longer playtime for removing make-up. These two products may be used alone or combined in a formulation depending on the desired result. Creasil® IE CG is used as an emollient in skin care formulations.

Sun Care

Creasil® ID CG, Creasil® IH CG and Creasil® IE CG can all be used in sun care formulation depending on the desired application qualities.

Colour Care

Creasil® ID CG and Creasil® IH CG are both used in mascaras and eyeliners either alone or together. Creasil® IE CG can be used as a soft emollient in colour care emulsions and as a plasticizer in mascaras. Creasil® IC CG and Creasil® IP CG are used in lipsticks and lip glosses as emollients and glossers. Creasil® IE CG may be added to Creasil® IC CG and Creasil® IP CG in lip gloss formulas to modify the application qualities and feel towards a more liquid and softer, less sticky feel.

Creasil® 7 ID and Creasil® 7 IE are used in colour care formulas for improving long lasting quality of applications. Both may be used in eyeliners, cream eye shadows and blushers, lipstick, lip glosses and also foundations and concealers. Both give smooth feel upon application, but they dry off to a long lasting water resistant film. Creasil® 7 ID dries off to a dryer film more appropriate for example for eyeliners whereas Creasil® 7 IE leaves more emollient and elastic film more suitable for lipsticks and lip glosses. Desired end result and other ingredients in the formula dictate which one is the right choice for a formula.

Formulating

Creasil® CG products are miscible in cyclomethicone, hydrocarbons, isoparaffins and mineral spirits. They can be used as co-solubilizers for non-hydrocarbon materials.

Emulsions

Creasil® CG products are added to the oil phase of emulsions or bi-phase products. In general they do not have any specific requirements for the formulating process. However, it should be noted that Creasil® ID CG has higher volatility than cyclomethicone and flash point at 45°C.

Typical use level: 5-20%

Creasil® 7 ID and Creasil® 7 IE are also added to the oil phase of emulsions. They have no specific formulating requirements.

Typical use level: 5-10%

Anhydrous systems

In lipsticks Creasil® IE CG and Creasil® IC CG are added in the hot lipstick base. In other anhydrous systems such as lip glosses Creasil® IE CG and Creasil® IC CG can be mixed together in hot or cold process depending on what the other ingredients require. Creasil® IP CG needs to be heated in order to mix it with other ingredients.

Typical use level: 5-45%

Creasil® 7 ID and Creasil® 7 IE are added to formulas in the same way as Creasil® IE CG and Creasil® IC CG.

Typical use level: 5-10%

Packaging: 25 kg jerry can and 160 kg metal drum