

SILICONE ELASTOMER BLEND



Product Bulletin

TCE-3045

INCI Name

CYCLOPENTASILOXANE & DIMETHICONE
CROSSPOLYMER

Description

TCE-3045 silicone elastomer blend is a mixture of high molecular weight silicone elastomers (dimethicone crosspolymer) in cyclopentasiloxane. TCE-3045 can be used in skin care, hair care, make-up, sun care, antiperspirants and deodorants, etc. It is easy to formulate and can be applied in cold process, It can reduce tackiness of formulations and provide dry, smooth and silky skin feel.

Specification

Parameter	Value
Appearance	Colorless translucent thixotropic solid
Penetration (25°C, mm)	8.00-12.00
Specific gravity	0.950-0.970
Non-volatile content (%)	11.00-13.00
D4 content (%)	<1.00

* These values indicate typical specifications, they are not intended to be used as product specifications.

Properties

- Non-greasy
- Quick absorption
- Compatible with varieties of lipophilic active ingredients such as fragrances, sunscreens, vitamins, and vitamin derivatives
- Reduce tackiness of formulations, provide dry smooth and silky skin feel
- Easy to formulate and can be cold processing
- Stable and safe

Application

- Skin care products
- Sunscreen products
- Hair care products
- Make-up
- Antiperspirants, deodorants

Formula guidelines

Typically used at a level of 1-20%.

TCE-3045 can be added to the oil-phase or silicone phase in an emulsion formulation. It can be post-added to emulsions if the emulsion is viscous enough for TCE-3045 to be dispersed. For ease of use, its viscosity can be reduced by blending with dimethicone or cyclomethicone. When heat is used, the material should be processed in an enclosed vessel to prevent the cyclopentasiloxane from volatilizing, the vessel should be inerted at temperatures over 60°C.

Storage & Handling

Use with adequate ventilation. Avoid eye contact. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Storage

Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat, sparks, and flame.

Standard Packing: 18 kg/drum, 180 kg/drum

Shelf life: 24months

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