



Factor II, Incorporated
Inventing and Innovating...
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ONLINE ORDERING www.factor2.com

PRODUCT INFORMATION

Product Name: D-109 Fumed Silica

Product Code: D-109

Intended Use: Used with silicone elastomers to control and increase viscosity and thixotropy. D-109 is the purest commercially available form of amorphous silica and is ideal for modifying silicone consistency and surface finish. It can also be used to reduce or eliminate surface shine in silicone elastomers, producing a matte or more natural finish.

PROCESSING PROCEDURE

- Add D-109 incrementally to the silicone base while mixing until desired viscosity or thixotropy is achieved.
- Mix thoroughly to ensure uniform dispersion of powder throughout the silicone mass.
- May be used in small concentrations (typically <5% by weight) for viscosity control.
- Can also be dusted lightly on cured silicone surfaces to remove shine.
- Avoid creating airborne dust; handle in a controlled environment with proper ventilation.

PROPORTIONS

Chemical Name: Amorphous Fumed Silica (SiO₂)

CAS Number: 112945-52-5

Appearance: Fine white powder

Odor: Odorless

Physical State: Solid (powder)

Boiling Point: Not applicable

Solubility: Insoluble in water

Specific Gravity: ~2.2 (at 25 °C)

Purity: 99.8% SiO₂ (amorphous)

pH (4% dispersion): 3.6 – 4.3

MIXING

Blend slowly to avoid dust generation. Use local exhaust or enclosed mixing when incorporating into silicone systems.



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PACKING

Store tightly closed in a cool, dry, well-ventilated area. Keep containers sealed when not in use to prevent contamination and airborne dust.

CURE

D-109 does not cure or react chemically. It modifies silicone viscosity and surface properties only.

CAUTION

May cause mechanical irritation to eyes and upper respiratory tract if inhaled. Prolonged exposure to airborne dust may aggravate pre-existing respiratory or skin conditions.

Avoid breathing dust — use with adequate ventilation.

Wear protective eyewear, gloves, and a dust mask or respirator.

Not classified as flammable or reactive.

HMIS Rating: Health 1 | Flammability 0 | Reactivity 0.

Not listed as a carcinogen by IARC, NTP, or OSHA.

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