



SILENOX (MGSF)

Methyl Hydrogen Silicone Fluid

PRODUCT

Methyl Hydrogen Silicone Fluid

CAS NUMBER

63148-57-2

PRODUCT DESCRIPTION

SILENOX (MGSF) is a reactive methyl hydrogen silicone fluid that is colorless, tasteless, and transparent. It contains active Si-H groups capable of forming crosslinked films in the presence of suitable catalysts, enabling outstanding water repellency and surface protection. When applied to porous and mineral-based substrates, SILENOX (MGSF) creates a breathable hydrophobic barrier that allows moisture vapor to escape while preventing liquid water penetration.

BENEFITS & FEATURES

- Strong hydrophobic performance on porous substrates
- Breathable film formation allows moisture vapor release
- Improves resistance to mold, efflorescence, and water damage
- Low application dosage with efficient performance
- Compatible with both acidic and alkaline mineral surfaces

APPLICATIONS

- Drywall / Wallboard
- Construction Materials
- Paper Processing
- Specialty Coatings
- Glass
- Ceramics



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This document is subject to revision without notice as new data becomes available.

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USAGE GUIDELINES

SILENOX (MGSF) is suitable for direct addition into wet formulations or for post-treatment of finished materials, depending on the end use. For slurry-based systems such as gypsum or cement, it is recommended to disperse evenly during mixing. For surface applications, it may be diluted and applied via spraying or brushing, followed by curing with metal salt catalysts. Typical usage levels range from 0.1% to 0.5% by weight of dry binder or substrate, though field trials should be conducted to optimize performance for specific applications.

SPECIFICATIONS

Parameters (units)	Specification
Appearance	Colorless, tasteless liquid
Viscosity (25°C, mm2/s)	17-25
Specific Gravity	0.995-1.015
Hydrogen Content (%)	≥ 1.55
pH (10% in water)	5.0-7.0

PACKAGING

Available in 200 kg drums and 1000 kg IBC totes

STORAGE

Store in tightly sealed containers in a cool, ventilated, and dry environment. Keep away from direct sunlight, high heat, and sources of ignition. Avoid contamination with acids, alkalis, oxidizing agents, and moisture. Proper storage ensures a shelf life of 12 months.

SAFETY

Avoid direct contact with skin and eyes. Use appropriate personal protective equipment. Do not ingest or inhale vapors. Refer to the Safety Data Sheet (SDS) for detailed guidance on safe handling, first aid, and disposal procedure.