

Indusil™ SQX5 Silicone

Description

Indusil SQX5 silicone is a solution of a silicate material in an aromatic solvent. It is an excellent candidate to consider as a component in polyurethane mold release formulations or as a surfactant to help stabilize PVC plastisol foam.

Key Features and Typical Benefits

- Excellent film former for uniform release properties throughout the mold
- Increased durability of release effect
- Highly effective with virtually all types of substrates
- Effective at low concentrations
- Easy to formulate
- Good heat resistance
- Soluble in a variety of solvents and in a number of silicone oils

Typical Physical Properties

| Properties | Unit | Value |
|----------------------------------|---------|------------------|
| Appearance | - | Colorless liquid |
| Active Content | % | 60 |
| Specific Gravity (25 °C / 77 °F) | - | 0.99 |
| Solvent | | Toluene |
| Flash Point - closed cup | °C / °F | 14.4 / 58 |
| Viscosity at 25 °C / 77 °F | cSt | 12 |

Typical properties are average data and are not to be used as or to develop specifications.

Potential Applications

- Component of polyurethane mold release formulations
- Component in release formulations for virtually all types of substrates, especially those that need good film formation such as tires and bladders, and metal dies such as aluminum die casting and others.
- Component of PVC plastisol foaming formulations

General Considerations for Use

Typical concentrations of Indusil SQX5 silicone in the final formulation range from 2 to 10% depending on the effect to be achieved.

Indusil SQX5 silicone is soluble in aliphatic and aromatic solvents and in polydimethylsiloxanes. It is not soluble in water, in certain mineral oils or in certain organic waxes.

It is best first diluted in an appropriate solvent to the desired concentration and then formulated into the finished release formulation.

The ability of Indusil SQX5 silicone to stabilize plastisol foams is related to its solubility in the plasticizer. Therefore the interaction between Indusil SQX5 silicone and the plasticizer should be tested at different concentrations to determine the levels required to achieve the desired effect.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-

the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

Contact Information

Email

commercial.services@momentive.com

Telephone

| Americas | Latin America | EMEAI- Europe, Middle East, Africa & India | ASIA PACIFIC |
|--------------------------------------|--|--|--|
| +1 800 295 2392 Toll free* | Brazil +55 11 4534 9650 | Europe +390510924300 | China 800 820 0202 |
| +704 805 6946 Direct Number | Direct Number | Direct number | Toll free +86 21 3860 4892 Direct number |
| *All American countries | Mexico +52 55 2169 7670 Direct Number | India, Middle East & Africa + 91 44 71212207 Direct number* | Japan +81 3 5544 3111 Direct number |
| | | *All Middle Eastern countries, Africa, India, | Korea +82 2 6201 4600 |

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