

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

For product prices, availability, or order placement, contact our customer service at Momentive.com/CustomerService/

For literature and technical assistance, visit our website at: www.momentive.com

DISCLAIMER:

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.

Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier’s products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier’s standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

*Indusil is a trademark of Momentive Performance Materials Inc.1033

Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.