

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

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Product Safety, Handling and Storage

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Limitations

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

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