

# Indusil\* ESS 210 Silicone

## Product Description

Indusil ESS 210 silicone is a solvent booster. It is based on a low molecular weight siloxane modified with an organic group. This unique material has the unusual ability to help solvents spread, penetrate, and release and help disperse fillers in resins and oils. Furthermore, it boasts a very low viscosity with a very high boiling point, a combination that is very hard to achieve with typical solvents.

## Key Features and Typical Benefits

- Excellent solvency power
- Unique combination of a very high boiling point with a very low viscosity
- Low VOCs (Volatile Organic Compounds)<sup>(1)</sup>
- Effective reduction of formulation viscosity at low concentrations
- Improved spreadability and surface coverage of solvents onto substrates via reduced surface tension of solvents
- Improved dispersibility of fine fillers in organic resins and oils

(1) Low VOC is based on the tested value found to be < 35ppm.

## Typical Physical Properties

Property	Typical Values
Appearance	Transparent, light brown liquid
Viscosity (25 °C), cSt	5
Boiling Point, °C at 760mmHg	> 350 (157 °C at 2mmHg)
Pour Point, °C	-42 °C
Flash Point, (ASTM D93), °C	172 °C
Refractive Index (nD <sub>25</sub> )	1.422

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

## Potential Applications

- Carrier for inks and coatings, as well as cutting oils for metal parts
- Inkjet applications
- Booster for cleaning solvents for all applications, including cleaning of electronic components
- Pigment dispersions for inks and coatings
- Fine filler dispersion of plastic compounds
- Spreading agent for coatings formulations

## General Considerations for Use

Indusil ESS 210 silicone is typically used as is. It is compatible with a large number of hydrocarbons, low molecular weight alcohols, esters and most silicones. Indusil ESS 210 is insoluble in water and propylene glycol.

Indusil ESS 210 silicone has a very low surface tension itself and when used as a 50:50 blend with oil-based formulations, it can help improve the spreadability of inks and coatings. Further, Indusil ESS 210 silicone can help disperse pigments and improve the stability of formulations.

### 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](http://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.

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