



Technical Data Sheet

DOWSIL™ 3037 Intermediate

Silicone resin intermediate used reacted with organic resins to improve weatherability, or other silicone resins to reduce VOCs and improve flexibility.

Features & Benefits

- Solventless, liquid resin
- Methoxy functional
- Compatible with organic resins such as polyesters, alkyds, epoxies and acrylics
- Improved weatherability for organic resins
- Reduced solvent requirements and improved flexibility with other silicone resins

Composition

- Phenyl, methyl silicone, methoxy functional

Applications

- Typically reacted with saturated polyesters or oil-free alkyds to form a silicone polyester copolymer. These copolymers are generally used in coil coatings and in appliance and high-temperature finishes.
- Cold-blended with other silicone resins to reduce solvent loading requirements in high temperature coating formulations.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Percent Actives	%	100
Methoxy Content	wt%	15–18
Phenyl/Methyl Ratio		0.25/1.0
Theoretical Silicone Resin Content ¹	wt%	82–85
Theoretical Silicon Dioxide Content		65
Specific Gravity at 25°C (77°F)		1.07
Viscosity at 25°C (77°F)	cSt	8–20
Appearance		Clear, water white
Molecular Weight, approx. MW	Daltons	700–1500
Flash Point, closed cup	°C (°F)	106 (223)

1. As hydrolyzed with methoxy groups replaced by =Si–O–Si= linkages.

Description	DOWSIL™ 3037 Intermediate is a methoxy-functional, solventless liquid silicone resin. It chemically reacts with organic systems containing active hydroxyl groups to form silicone-organic copolymers, or can be blended with other silicone resins to modify physical properties and reduce solvent requirements.
Toxicological Information	<p>Animal studies indicate that DOWSIL 3037 Intermediate may cause skin irritation, especially if the affected skin is abraded.</p> <p>Direct eye contact may cause slight irritation. In case of eye contact, prompt flushing with water may reduce or prevent irritation from developing. Precautions should be taken to avoid skin and eye contact.</p>
Caution	DOWSIL 3037 Intermediate reacts in the presence of water, water vapor or alcohols to form methanol. Adequate ventilation should be provided to keep methanol vapor below the 200 ppm threshold limit value.
Handling Precautions	PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.
Usable Life And Storage	<p>When stored in original, unopened containers at or below 25°C (77°F), DOWSIL 3037 Intermediate has a shelf life of 36 months from date of manufacture. Refer to product packaging for "Use By" date.</p> <p>Opened containers should be tightly closed after use to prevent contaminants from affecting the product.</p>
Packaging Information	DOWSIL 3037 Intermediate is available in 500 ml, 18 kg and 200 kg containers, net weight.
Limitations	This product is neither tested nor represented as suitable for medical or pharmaceutical uses.
Health And Environmental Information	<p>To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.</p> <p>For further information, please see our website, www.consumer.dow.com or consult your local Dow representative.</p>

<http://www.consumer.dow.com>

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