LANDU

Technical data sheet
TDS-NOVERA-2030-L-EN
Revision 1.0, November 2026

LANDUSIL NOVERA

2030-L

Hydroxyl-Functional Methyl Phenyl Silicone Resin Intermediate

Hydroxyl-functional methyl phenyl resin intermediate for polyester, alkyd and hybrid resin modification

Chemical identity

Chemical name
Hydroxyl-functional methyl phenyl silicone resin

CAS number
See SDS

Reactive group
Silanol (Si–OH)

Physical form
Liquid

Product description

LANDUSIL NOVERA 2030-L is a low-molecular-weight, hydroxyl-functional methyl phenyl silicone resin intermediate. It is a clear liquid.

The silanol groups condense with hydroxyl groups of polyesters, alkyds, acrylics and epoxies and form silicone-organic copolymers with better weathering and heat resistance. It is also used in filled bonding materials and coil coating binders.

Features and benefits

- Hydroxyl-functional intermediate
- Forms silicone–organic copolymers
- Improves weathering and heat resistance
- Reactive with polyester and alkyd
- Suited to coil and filled-bond binders

Specification

Property	Unit	Value	Test method
Appearance		**Clear liquid**	Visual
Hydroxyl content	%	**3.5 – 6.0**	Titration

Tested on every batch and reported on the Certificate of Analysis.

Typical properties

Reaction	SiOH + HOC → Si–O–C + H_2O
Volatile content	max. approx. 3 %

For guidance only; not part of the specification.

Applications

Silicone-modified polyester and alkyd manufacture
Silicone copolymers with better weathering.

Heat-resistant filled bonding materials
Reactive resin phase for filled bonds.

Organic resin–siloxane hybrid manufacture
Intermediate for hybrid resins.

Modified binders for coil coatings
Binder modification for coil coating.

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Guidelines for use

Reaction partner	Match the hydroxyl content to the organic resin; run a small-scale co-condensation first.
Process	Remove water of condensation and use a condensation catalyst as required.

These levels are starting points. Determine the optimum level and method in trials under your own conditions.

Handling and safety

- Wear gloves and eye protection; avoid skin and eye contact.
- Keep away from heat and ignition sources; use with ventilation.
- Read the Safety Data Sheet before use.

Storage and shelf life

Store in tightly closed original containers in a cool, dry place, protected from moisture. Shelf life is 12 months from the date of manufacture in unopened containers.

Packaging

25 kg plastic drum, 200 kg steel drum, 1,000 kg IBC. Other pack sizes on request.

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