LANDU

**Technical data sheet**
TDS-NOVERA-2020-L-EN
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LANDUSIL NOVERA

# 2020-L

## High-Phenyl Silicone Resin

High-phenyl silicone resin solution for heat-resistant industrial coatings and varnishes

### Chemical identity

Chemical name
**High-phenyl silicone resin in xylene**

CAS number
**Mixture – see SDS**

Solids content
**approx. 50 %**

Physical form
**Liquid**

## Product description

LANDUSIL NOVERA 2020-L is a silanol-functional silicone resin with a high phenyl content, supplied as a solution of about 50 % solids in xylene.

The phenyl groups improve high-temperature stability and compatibility. It is used for industrial heat-resistant coatings, heated steel surfaces, filled bonds and electrical impregnation varnishes.

## Features and benefits

- High phenyl content
- Heat and thermal-oxidation resistance
- Solution ready for formulation
- Reactive silanol groups
- Compatible with metallic pigments

## Specification

| Property | Unit | Value | Test method |
|---|---|---|---|
| Appearance | | **Clear, colourless to slightly yellow liquid** | Visual |
| Solids content | % | **48 – 52** | Gravimetric, 3 h / 135 °C |
| Viscosity, 25 °C | mPa·s | **100 – 190** | Rotational viscometer |

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

## Typical properties

| | |
|---|---|
| Phenyl/methyl ratio | approx. 1.1 : 1 |
| Flash point | approx. 27 °C |

For guidance only; not part of the specification.

## Applications

**Industrial heat-resistant coatings**
Binder for heat-resistant industrial coatings.

**Structural steel and heated infrastructure surfaces**
Finish for heated steel.

**Filled heat-resistant bonds**
Resin phase for filled bonds.

**Electrical impregnation varnishes**
Base resin for insulating varnish.

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## Guidelines for use

| | |
|---|---|
| **Formulation** | Pigment with metallic or heat-stable pigments; thin with xylene if needed. |
| **Cure** | Bake at elevated temperature; 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

- Solutions are flammable; keep away from heat and ignition sources, ground containers and use with ventilation.
- Wear gloves and eye protection; avoid skin and eye contact.
- Read the Safety Data Sheet before use.

## Storage and shelf life

Store in tightly closed original containers in a cool, dry, well-ventilated place away from ignition sources. 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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