

# SEMICOSIL<sup>®</sup> 920 LT A/B



## Silicone Gels

SEMICOSIL<sup>®</sup> 920 LT A/B is a pourable, addition-curing, two-part silicone rubber that cures to a soft silicone gel.

## Properties

- two-part, 1 : 1 mixing ratio
- very low viscosity
- fast cure
- forms a soft gel on vulcanization
- almost constant properties between -100 °C and +200 °C
- low ion content

## Technical data

### Properties Uncured

Property	Condition	A	B	Method
Color	-	transparent	transparent	-
Density	23 °C	0.98 g/cm <sup>3</sup>	0.98 g/cm <sup>3</sup>	DIN EN ISO 2811-1
Viscosity rot. dyn.	25 °C	500 mPa·s	400 mPa·s	ISO 3219

These figures are only intended as a guide and should not be used in preparing specifications.

## Properties Catalyzed A+B

Property	Condition	Value	Method
Viscosity rot. dyn.	25 °C	420 mPa·s	ISO 3219
Platinum catalyst in component	-	A	-
Mix ratio	-	1 : 1	A : B
Pot Life : increase of viscosity to 1.000 mPa.s (Brookfield)	23 °C	20 min	DIN EN ISO 2555
Pot Life : increase of viscosity to 20.000 mPa.s (Brookfield)	23 °C	≥ 100 min	DIN EN ISO 2555
Gel time	70 °C	5 min	EN ISO 9396

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## Properties Cured

Cured at 150 °C for 60 min. in a vented oven

Property	Condition	Value	Method
Color	-	transparent	-
Density	23 °C	0.98 g/cm <sup>3</sup>	DIN EN ISO 1183-1 A
Penetration <sup>(1)</sup>	-	30 1/10mm	DIN ISO 2137

<sup>1</sup>quarter cone, 9.38 g, 5 sec.

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Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be downloaded via WACKER web site <http://www.wacker.com>.

## Application details

Encapsulation of sensitive electronic components such as hybrid elements with wire-bonded chips.

## Processing

### Surface preparation

All surfaces must be clean and free of contaminants that will inhibit the cure of SEMICOSIL® 920 LT A/B. Examples of inhibiting contaminants are sulfur containing materials, plasticizers, urethanes, amine containing materials and organometallic compounds – especially organotin compounds.

If a substrate's ability to inhibit cure is unknown, a small-scale test should be run to determine compatibility.

### Mixing

#### Caution

Only components A and B with the same lot number may be processed together!  
Component A of SEMICOSIL® 920 LT A/B contains the platinum catalyst, component B the crosslinker. Even traces of the platinum catalyst may cause gelling of the component containing the crosslinker.  
To eliminate any air introduced during dispensing or trapped under components or devices a vacuum encapsulation is recommended.

### Curing

The curing time of addition-curing silicone rubber is highly dependent on temperature, size and heat sink properties of the component being potted.

Temperature	Curing time (10 mm)
110 °C	30 min
130 °C	20 min
150 °C	10 min

## Packaging and storage

### Storage

SEMICOSIL® 920 LT A/B should be stored between 5 °C and 30 °C in the tightly closed original container. The 'Best use before end' date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

## Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

## QR Code SEMICOSIL® 920 LT A/B



**For technical, quality or product safety questions, please contact:**

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