

# POWERSIL® GEL C 670 A/B

## Silicone Gels

POWERSIL® GEL C 670 A/B is a two-component, addition-curing silicone mixture that cures at room temperature to a soft silicone gel.

POWERSIL® GEL C 670 A/B is filled with special light weight filler which results in a low density, compressible silicone gel. The compressibility of the material makes it unique for applications in closed instruments without pressure compensation containers.

## Properties

- two-part, 1 : 1 mixing ratio
- low viscosity (uncured)
- easy metering
- non-bleeding gel

## Specific features

- Vulcanizate: Compressible
- Vulcanizate: Low density

## Technical data

### Properties Uncured

Property	Condition	A	B	Method
Color	-	white	white	-
Viscosity, dynamic (10 s <sup>-1</sup> )	-	3000 mPa·s	3000 mPa·s	DIN EN 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, dynamic (10 s <sup>-1</sup> )	-	4000 mPa·s	DIN EN ISO 3219
Platinum catalyst in component	-	A	-
Mix ratio	-	1 : 1	A : B
Pot Life	23 °C	100 min	-
Curing time (thickness: 1cm)	23 °C	8 h	-
Curing time (thickness: 1cm)	100 °C	15 min	-
Curing time (thickness: 1cm)	150 °C	5 min	-

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## Properties Cured

Cure conditions: 30 min / 150 °C in a circulating air oven.

Property	Condition	Value	Method
Color	-	white	-
Density	-	0.7 g/cm <sup>3</sup>	DIN EN ISO 1183-1 A
Penetration (Hardness) <sup>(1)</sup>	-	220 1/10mm	DIN ISO 2137
Volume resistivity	23 °C	10 <sup>15</sup> Ohmcm	IEC 62631-3-1
Permittivity	50 Hz	2.0	IEC 62631-2-1
Dissipation factor	50 Hz	4 x 10 <sup>-4</sup>	IEC 62631-2-1
Dielectric strength	-	18 kV/mm	IEC 60243-1
Modulus	-	0.53 N	-

<sup>1</sup>150g cone / 60s penetration time

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

## Applications

- Cable Accessories
- Insulators

## Application details

- filling of cable terminations
- filling of bushings
- filling of electrical equipment

## Processing

### Important:

The platinum catalyst is contained in component A. Only components A and B with the same lot number may be processed together.

### Surface preparation:

All surfaces must be clean and free of contaminants that will inhibit the cure of POWERSIL® GEL C 670 A/B. Examples of inhibiting contaminants are sulfur containing materials, plasticizers, urethanes, amine containing materials and organometallic compounds especially organo-tin compounds. If a substrate's ability to inhibit curing is unknown, a small scale test should be run to determine compatibility.

### Mixing:

Components A and B must be homogenized before use, due to separation of light weight filler. The two components should be thoroughly mixed at a 1 : 1 ratio by weight or volume. To eliminate any air introduced during dispensing or trapped under components or devices a vacuum encapsulation is recommended.

We recommend running preliminary tests to optimize conditions for the particular application.

Comprehensive processing instructions are given in our leaflet "Wacker RTV-2 Silicone Rubber Processing".

### Curing:

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

## Packaging and storage

### Storage

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 POWERSIL® GEL C 670 A/B



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

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