

# WACKER® IM 11

## Functional Silicone Fluids

WACKER® IM 11 is a polydimethylsiloxane having carbinolfunctional groups in  $\alpha,\omega$ -position.

### Properties

By functionalizing the polydimethylsiloxanes at the ends of the chain defined products with 2 organofunctions are obtained. The functional groups are bonded to the polydimethylsiloxane by chemically inert propylene spacer groups, which are stable to hydrolysis.

Its terminal functional groups render WACKER® IM 11 a valuable reactive silicone intermediate, which is useful for typical reactions with suitable functional groups of appropriate compounds, e.g. esterifications, transesterifications and addition reactions with isocyanates. This results in manifold possibilities for further chemical modification, for the synthesis of block copolymer systems or for the modification of organic polymers with silicone.

Modification of organic systems with polydimethylsiloxanes results in a change of the properties of the system. Typical properties of the polydimethylsiloxane backbone are, for example:

- low surface tension
- good softener effects
- high chemical stability
- excellent high- and low-temperature stability
- very good low-temperature flexibility

WACKER® IM 11 is used in following applications of the textile auxiliary industry:

Polyurethane finecoating: plastifier, softener

Artificial leather: flow control agent for paints

## Technical data

### General Characteristics

Property	Condition	Value	Method
Viscosity, kinematic	25 °C	approx. 55 mm <sup>2</sup> /s	DIN 51562-1
Chain length approx.	-	12	-
Functional Group Carbinol	-	(CH <sub>2</sub> ) <sub>3</sub> OH	-
Hydroxyl Number approx. <sup>(1)</sup>	-	100 mg KOH/g	-
Molecular Weight Mn	-	approx. 1000 g/mol	-

<sup>1</sup>acc. DIN 53240-2

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

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## Application details

Processing:

WACKER® IM 11 can be used neat, from solution, or emulsion. Suitable solvents for WACKER® IM 11 are aliphatic and aromatic hydrocarbons, chlorinated hydrocarbons, esters, higher alcohols, and ketones.

## 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 WACKER® IM 11



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

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