

# WACKER® GM 166

## Functional Silicone Fluids

WACKER® GM 166 is a modified silicone fluid of medium viscosity whose special chemical structure imbues it with the benefits of silicone fluids and mineral oils. WACKER® GM 166 is used for the formulation of release agents for the thermal molding of rubber, plastics, and low-melting nonferrous metals. It is superior to conventional silicone fluids when the finished parts are subsequently to be painted, printed, coated or bonded. An outstanding release effect is even obtained when extremely small amounts of the release agent are used. The result is an easy, accurate reproduction of every surface detail of the molded article. WACKER® GM 166 exhibits excellent film forming properties.

## Technical data

### General Characteristics

Property	Condition	Value	Method
Refractive index	25 °C	1.4544 - 1.4554	DIN 51423
Viscosity, dynamic	25 °C	800 - 1400 mPa·s	DIN 53019
Appearance	-	clear, brownish	-
Color Index <sup>(1)</sup>	-	0 - 150	-
Volatility	5 g   2 h   230 °C	0.0 - 2.0 %	-

<sup>1</sup>APHA

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

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

- Light Alloy Diecasting
- Polyurethane Processing

## Application details

For easy application, WACKER® GM 166 may be diluted with solvents such as white spirit and aromatic hydrocarbons.

To ensure optimum flow, maximum number of moldings and economic use of the release agent, it is advisable to carry out preliminary tests to ascertain the optimum concentration, type of solvent, method of application and mold temperature. Generally, solutions with a silicone content of approximately 1 % are best to start with.

## 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® GM 166



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

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