

## DOW CORNING® 111 SILICONE COMPOUND

### Valve lubricant and sealant

#### FEATURES

- ◆ Good resistance to most chemicals
- ◆ Wide service temperature range (-40°C to +200°C)
- ◆ Low vapour pressure
- ◆ Low volatility
- ◆ Excellent water resistance

#### COMPOSITION

- ◆ Silicone oil
- ◆ Inorganic thickener
- ◆ Additives

#### APPLICATIONS

- ◆ Lubrication for control and pressure plug valves, water softener and faucet valves.
- ◆ Sealant for vacuum and pressure systems.
- ◆ Sealant for outdoor equipment (also shipboard) subject to washing and harsh environmental exposure: meters, electrical service entrance and underground connections.
- ◆ Damping medium for dash pots in electrical and electronic equipment.
- ◆ Chemical barrier coating.
- ◆ Used as an anti-stick and sealant for transformer gasket and equipment enclosures. It prevents gaskets from sticking to metal and resists weathering and water washout.
- ◆ Rubber and plastic O-rings, gaskets and seals.

#### TYPICAL PROPERTIES

Specifications writers: These values are not intended for use in preparing specifications. Please contact Dow Corning Europe, La Hulpe, Belgium before writing specifications on this product.

Standard*	Parameter	Units	Value
	Physical nature		Stiff compound
	Colour		White to light grey, translucent
ISO 2137	Penetration unworked	mm/10	175 to 210
ISO 2137	Penetration, worked 60, max.	mm/10	260
CTM 0033A	Bleed 24 hours/200°C, max.	%	0.5
CTM 0033A	Evaporation 24 hours/200°C, max.	%	2.0
	Melting point	°C	None

\* CTM: Corporate Test Method, copies of CTMs are available on request.

ISO: International Standardisation Organisation

#### HOW TO USE

##### How to apply

DOW CORNING 111 Silicone Compound can be applied by hand, specially designed automated equipment, brushing or wiping. Certain designs of grease guns may seize up; test prior to use.

A thinner consistency can be achieved by dispersing in solvents such as xylene, mineral spirits and methyl ethyl ketone. DOW CORNING 111 Silicone Compound can then be applied by brushing, dipping or

spraying.

DOW CORNING 111 Silicone Compound should not be applied to any surface which will be painted or finished. Such coatings may not adhere to the silicone-treated surface. If contaminated by a silicone coating, parts can be wiped or washed with solvent, washed with detergent, or immersed in an alcoholic potassium hydroxide solution and then rinsed in clear water before painting.

## Solubility

DOW CORNING 111 Silicone Compound is insoluble in water, methanol, ethanol, or mineral oil, and soluble in Chlorothene NU<sup>®\*</sup>, perchloroethylene, mineral spirits and methyl ethyl ketone. The greater the consistency (lower penetration value), the lower the solubility of the specific silicone compound. The suitability of the particular solvent should be based on testing prior to regular use. Flammability and toxicological properties should be important considerations in the choice of a solvent.

## Chemical resistance

DOW CORNING 111 Silicone Compound is not greatly affected by mineral oils, vegetable oils or air. It is generally resistant to dilute acids and alkalines, and to most aqueous solutions.

DOW CORNING 111 Silicone Compound is quite resistant to a wide variety of organic and inorganic chemicals. Because each application may vary in chemical composition, pressure, flow velocity, relubrication requirements and equipment design, it is recommended that the silicone compound be tested before adopting for regular use.

DOW CORNING 111 Silicone Compound is not to be used with liquid oxygen and should not be used in applications requiring LOX compatibility.

## HANDLING PRECAUTIONS

DOW CORNING 111 Silicone

Compound may cause temporary discomfort when in direct contact with eyes. In case of eye contact, flush eyes with water.

Product Safety Data Sheets should be obtained from your nearest Dow Corning sales office prior to use.

ATTENTION: Before handling, read product information, Product Safety Data Sheets and container labels for safe use, and any physical and/or health hazard information.

## USABLE LIFE AND STORAGE

When stored at or below 20°C in the original unopened containers this product has a usable life of 60 months from the date of production.

Dow Corning will guarantee the usable life of this product until the date indicated on the packaging. This date is shown by the letters "EXP" (meaning Expiry) followed by 4 digits, which stand for the month (last day) and year. Example: "EXP 03/99" means use by 31 March 1999.

## PACKAGING INFORMATION

This product is available in different standard container sizes. Detailed container size information should be obtained from your nearest Dow Corning sales office or Dow Corning distributor.

## LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## HEALTH AND ENVIRONMENTAL INFORMATION

Dow Corning's Health, Environment and Regulatory Affairs (HERA) Department is available to support customers for their product safety needs. For further information, you can contact this group at:

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\*<sup>®</sup> Chlorothene NU is a registered trademark of the Dow Chemical Company.

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