

## INNERBOND Z-61 SILICONE COMPOUND

Innerbond Z-61 compound is a grease-like silicone paste with a polydimethyl silicone fluid base and a quantity of inert filler. Specially designed as a chemically resistant, high and low temperature valve lubricant, Innerbond Z-61 silicone compound has a very low vapor pressure, is non-carbonizing and resists melting and hardening even with extended high temperature use. The components of Innerbond Z-61 are permitted for incidental food contact use under FDA Regulations 21 CFR 177.2600.

### FEATURES

- High water repellency
- Stable consistency between -40 & 392° F (-40 & 200° C)
- Excellent resistance to chemicals and aging
- Essentially non-toxic
- Chemical inertness
- Conforms to FDA Regulation 21 CFR 177.2600 for incidental food contact

### APPLICATIONS

Typical applications of Innerbond Z-61 Silicone Compound:

- Lubrication of valves exposed to extremely high or low temperatures, steam and corrosive elements
- Lubrication of laboratory ground glass valves, or very tiny valves
- Greasing of screw and valve threads on pneumatic or liquified gas valves and regulators (except oxygen and highly reactive gases)
- Packing of valves and pumps

### TYPICAL PROPERTIES

<b>Color</b>	White, Translucent	<b>Specific Gravity @ 68° F (20° C)</b>	1.0
<b>Penetration worked (ASTM D 217)</b>	240	<b>Penetration Unworked/24 hr. max</b>	215
<b>Bleed: 24 hr/392° F (200° C) (MIL-S-8660B)</b>	<0.5% max	<b>Evaporation: 24 hr/392°F (200° C) (MIL-S-8660B)</b>	<1.5% max
<b>Service temperature range</b>	-40°F to 500°F (-40°C to 260°C)	<b>Drop Point (ASTM D 566)</b>	None

### HOW TO USE

Surface should be clean and free of dust and grease. Apply to surfaces in a thin, uniform coat. Use as needed for packing.

## **SOLUBILITY**

Innerbond Z-61 silicone compound is insoluble in water, methanol, ethanol, acetone, glycerin or glycol. Chlorinated solvents, aromatic and aliphatic hydrocarbons will partially dissolve the silicone oil base.

## **LIMITATIONS**

Since behavior of this compound is in many cases a function of special use conditions, it is recommended that preliminary tests be carried out in well-defined conditions in order to establish suitability. Our Technical Service Department can supply information pertaining to the product's resistance to specific chemicals.

Innerbond Z-61 silicone compound is not recommended for the lubrication of valves or release valves in oxygen lines. Silicone in contact with pressurized oxygen may be hazardous.

Innerbond Z-61 silicone compound is not recommended for the lubrication of special metals such as aluminum, nickel and certain austenitic steels as surface scratching or wear may occur.

## **SAFETY**

Innerbond Z-61 silicone compound is toxicologically inert. Nonetheless, repeated or prolonged contact with skin or mucous membranes should be avoided. Do not swallow or splash in eyes.

**EYE IRRITANT:** In case of eye contact, flush with water. Irritation does not involve cornea and should subside with several hours. If irritation persists consult a physician. **NOTE:** Silicone compounds are slippery. Be careful not to leave traces on floors, ladders, etc., as this may present a hazard.

## **STORAGE AND SHELF LIFE**

When stored in the original, unopened container at room temperature, (41-77° F / 5-25° C), Innerbond Z-61 silicone compound has a shelf life of two years.

## **NOTE**

The information and data contained herein are believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since Inland, Inc. cannot know all of the uses to which its products may be put or the conditions of use, it makes no warranties concerning the fitness or suitability of its products for a particular use or purpose.

Thorough testing of our product on any proposed use should be conducted prior to each application. It is the responsibility of the consumer to evaluate the performance of our product in each given application. Likewise, if the manner in which our products are used requires governmental approval or clearance, it is the user's responsibility to obtain it.

Inland, Inc. warrants only that each product will meet its specifications. There is no warranty of merchantability or fitness for use, nor any other expressed or implied warranties. The user's exclusive remedy and Inland, Inc.'s sole liability is limited to replacement of any product shown to be otherwise than as warranted. Inland, Inc. will not be liable for incidental or consequential damages of any kind.

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