

INNERBOND Z-24 COMPOUND

Innerbond Z-24 compound is a grease-like silicone paste with a polydimethyl silicone fluid base and a quantity of inert filler. Z-24 silicone compound will retain its consistency and lubricating/insulating properties over a broad range of temperatures -40°F to 392°F (-40°C to 200°C).

FEATURES

- High water repellency
- Stable consistency between -40 & 392° F(-40 & 200° C)
- Excellent resistance to chemicals and aging
- Essentially non-toxic
- Chemical inertness
- Excellent dielectric properties
- Good anti-adherent properties
- Conforms to MIL-S-8660B specifications

APPLICATIONS

- Sealant for switches, cable and cable connectors, battery terminals, lamp sockets
- Lubricant for metal on plastic or metal-on rubber bearings
- Lubricant for extreme temperature conditions
- Anti-moisture and mechanical protection agent for fiber optic cables

REMOVAL

In the event that the silicone coating must be replaced or stripped, a careful cleaning should be carried out by hand using wood shavings, cloth rags or other mechanical means.

APPLICATION

Innerbond Z-24 silicone compound can be applied with a knife, a spatula, a grease gun, a brush or a pad. Where a thin layer of Innerbond Z-24 cannot be applied as received it may be applied as a dispersion from solvent by dipping or spraying.

A 10% dispersion in xylene is suggested, but chlorinated or aromatic solvents, naphtha, petroleum and white-spirit may also be used for the dispersion.

Innerbond Z-24 silicone compound should not be applied to any surface which is to be painted or finish-coated. Such coatings may not adhere to silicone treated surfaces.

TYPICAL PROPERTIES

Consistency	Medium	Specific gravity at 68°F, (20°C)	1.0
Penetration worked (ASTM D 217)	220	Penetration Unworked/24 hrs	200 max
Melting Point	None	Bleed: 24 hrs/392°F, (200°C)	6%
Evaporation: 24 hrs/392°F, (200°C),..	2% max	Dielectric strength	20 kV/mm
Flash Point.	572° F (300°C)	Drop point (ASTM D 566)	594° F (250°C)
Tangent of loss angle @ 1 kHz	-4	(ASTM D 150)	5.10
Volume resistivity, ohm-cm			
(UTE C 25215) at 73°F (23°C)	1 x 10 ¹⁵	(UTE C 25215) at 350°F (177°C).	1 x 10 ¹²
Service temperature range	-70 to 400° F (-57 to 204° C)		
Dielectric constant @ 1KHz, (ASTM D 150)..	2.6		

The maximum temperature limit may approach 500°F (260°C) with no oxygen present. Bleed and evaporation measurements are made with the apparatus as described in military specifications MIL-S-8660C.

HEALTH AND SAFETY

Innerbond Z-24 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-24 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 within 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.

SHELF LIFE

Stores in the original, unopened container at room temperature (41-77°F/5-25°C), Innerbond Z-24 silicone compound has a shelf life of 2 years.

PACKAGING

Innerbond Z-24 is available in 5.3 oz tubes, 8 oz tubes, or 1 gallon (8 lb) pails.

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.

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