

INNERBOND Z-41 COMPOUND

Innerbond Z-41 compound is a grease-like silicone paste with a polydimethyl silicone fluid base and a quantity of inert filler. It is an extremely stable compound which will not dry, cure or bleed even after prolonged exposure at temperatures up to 392°F (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-C-47113 REV B, Type 1 specifications

APPLICATION

Mounting of transistors and diodes. Innerbond Z-41 Compound forms a thermal bridge between transistors, diodes and the chassis, increasing assembly efficiency.

TYPICAL PROPERTIES

Specific gravity at 68°F, (20°C)	2.3	Bleed: 24 hrs/392°F, (200°C)	1.5%
Penetration worked (ASTM D 217)	280	Penetration unworked/24 hrs. max	270
Evaporation: 24 hrs/392°F, (200°C)	1.0% max	Service temperature range	-40°F to 392°F -40°C to 200°F
Thermal conductivity Cal/cm/degrees C/s	1x10 ⁻³	Thermal conductivity W/m/degrees C/s	0.42
Dielectric strength, kV/mm, (UTE C 26225)	15	Dielectric constant @ 1KHz, (ASTM D 150)	3.5
Tangent of loss angle @ 1 kHz	-3	(ASTM D 150)	5.10
Volume resistivity, ohm-cm(UTE C 25215) – at 73°F (23°C)	1 x 10 ¹⁵	Drop point (ASTM D 566)	None
Flash Point	572° F 300°C	Heat Conductibility	0.41 W(m.K)

HOW TO USE

Surface should be clean and free of dust and grease. Apply with knife, spatula, grease gun, brush or pad.

HEALTH AND SAFETY

Silicone compounds are not recommended for the lubrication of valves or release valves in oxygen lines. Silicone in contact with pressurized oxygen may be hazardous.

Innerbond silicone compounds are 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

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

NOTE

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