

# JIT SILICONES +

## Electrical Compound

### Electrical Compound

- Primary Use:
  - Dielectric moisture barrier for use on electrical connections
- Applications include cable connections, battery terminals, moisture proofing of electrical assemblies and connections
- Service Temperature -40° F to 400° F
- Translucent silicone paste



#### Standard package sizes:

ITEM #	SIZE	NOTE
20011	5.3oz Tube	12 Tubes Per Standard Box
20013	8 lb Pail	Plastic Pail
20014	5 Gallon Pail	Plastic Pail
20015	55 Gallon Drum	Metal Drum

## JIT Silicones +

P.O. Box 24

Mars, PA 16046

Phone: (855) JIT-PLUS (855) 548-7587

[www.jitsiliconesplus.com](http://www.jitsiliconesplus.com)



# TECHNICAL DATA SHEET

## Electrical Compound

rev. 02-2015

### FEATURES

- Highly water repellent
- High dielectric strength
- Low volatility
- Good thermal oxidation and chemical stability
- Retains its grease like consistency from -40°C (-40°F) to 204°C (400°F)
- Odorless
- Adheres readily to dry metals, ceramics, rubber, plastics and insulating resins
- Comparable to Dow Corning® 4 Compound

### COMPOSITION

- Silicone fluids
- Silica filler

### APPLICATIONS

- A moisture proof seal for aircraft, automotive and marine ignition systems and spark plug connections
- Disconnection junctions in electrical wiring systems, electrical assemblies and terminals.
- Used as a seal and lubricant for:
  - Cable connectors
  - Battery terminals
  - Rubber door seals
  - Switches
  - Rubber and plastic O-rings
  - Various metal-on-plastic and metal-on-rubber combinations

### CERTIFICATION

- Mil-S-8660C under the NATO Code #S-736
- FDA title 21 CFR175.300 Lubricants for Incidental Food Contact

**Usable Life & Storage** -- When stored at or below 32°C (89.6°F), this product has a minimum usable life of 60 months from date of production.

**Handling Precautions** - See MSDS Sheet

**Limited Warranty - Please Read Carefully**The information contained herein is offered in good faith and is believed to be accurate. However, Because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that JIT Silicones + (JIT) products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

JIT's sole warranty is that the product will meet the sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. JIT SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. JIT DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

*Electrical Compound* is a grease-like compound containing an inert silica filler in combination with selected polydimethyl silicone fluids designed to provide superior release characteristics while maintaining the excellent dielectric properties inherent with silicone compounds. Designed as a rubber and plastic lubricant, meets the requirements for Mil-S-8660C under the NATO Code # S-736.

### TYPICAL PROPERTIES

The values reported on this sheet should not solely be used for preparing specifications on this product. Please contact JIT Silicones+ for assistance in preparing a specification.

Property	Test Method	Typical Value
Color	Translucent Paste, Homogeneous	
Specific Gravity	CTM	1.0 g/cm
Bleed, (200°C /24hrs)	CTM	4.5%
Evaporation, (200°C /24hrs)	CTM	1.4%
Penetration, unworked	ASTM D 217	200 - 260
Penetration, worked x 60	ASTM D 217	310
Service Temperature Range		-40° to 204°C
Melting Point		None
<b>Electrical Properties</b>		
Dielectric constant, (100 kHz)	ASTM D 150	3.01
(100 HTZ)	ASTM D 150	2.98
Dielectric Strength, 50 Mil Gap	ASTM D 149	>450V/mil
Volume Resistivity, (ohm-cm)	ASTM D 257	1x10
Arc Resistance, seconds	CTM	130
Dissipation Factor (100kHz)	ASTM D 150	<0.0002
(100 HTZ)		0.0001

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

### LIMITATIONS

Should not be applied to any surface to be painted or finished. Coatings may not adhere to the silicone-treated surfaces. This product is not tested, nor approved for medical or pharmaceutical uses.

### PACKAGING

*Electrical Compound* is available in 55 gallon drums (400 lbs.), 5 gallon pails (40 lbs.) or 1 gallon pails (8 lbs.), 5.3 oz. tubes. Special Sizes available on request.