

# JIT SILICONES +

## Release Compound

### Release Compound

- Primary Use(s):
  - A release agent for plastic & metal surfaces
  - Mold Release Agent
  - Mold Break-in
  - Release for adhesives
  - Lubricant for plastics & elastomers
  - Rubber cable lubricant for pulling through conduit
- Service Temperature -70° F to 399° F
- Translucent paste
- FDA Compliant



#### Standard package sizes:

ITEM #	SIZE	NOTE
20021	5.3oz Tube	12 Tubes Per Standard Box
20023	8 lb Pail	Plastic Pail
20024	5 Gallon Pail	Plastic Pail
20025	55 Gallon Drum	Metal Drum

#### Available from:

## JIT Silicones +

P.O. Box 24

Mars, PA 16046

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



**Release Compound**

**FEATURES**

- Highly water repellent
- High dielectric strength
- Low volatility
- Good thermal oxidation and chemical stability

- Retains its grease like consistency from -57°C - 204°C (-70°F - 399°F)
- Odorless
- Adheres readily to dry metals, ceramics, rubber, plastics and insulating resins
- Comparable to Dow Corning® 7
- FDA21CFR 175.300

**COMPOSITION**

- Silicone fluids
- Silica filler

**APPLICATIONS**

*Release Compound* can be used in applications including:

- Mold release agent for foundry shell and core molds
- A moisture proof seal for aircraft, automotive and marine ignition systems and spark plug connections
- Break-in treatment for bladders on tire presses
- Rubber lubricant and preservative
- Release agent for adhesives and glues
- Airframe lubricant
- Cable-pulling lubricant to draw rubber-covered cable through conduit
- Release agent for plastic extruders and processing equipment
- Release agent for plastic film packaging machines
- Used as a seal and lubricant for:
  - Cable connectors
  - Battery terminals
  - Rubber door seals
  - Switches

**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.

*Release Compound* is a grease-like compound containing an inert silica filler in combination with selected polydimethyl silicone fluids designed to provide superior release characteristics on rubber and plastic substrates while maintaining the excellent dielectric properties inherent with silicone compounds. Formulated to provide corrosion protection from materials such as aluminum, lead magnesium alloys, solder, steel, zinc, and copper.

**TYPICAL PROPERTIES**

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

Property	Test Method	Typical Value	Range
Color		Translucent Paste, Homogeneous	
NLGI Grade	ASTM D 217	#1	
Specific Gravity at 25°C	CTM	1.0 g/cm	
Bleed, (200°C /24hrs)	CTM	0.9%	5% max
Evaporation, (200°C /24hrs)	CTM	1.9%	5% max
Penetration, worked x 60	ASTM D 217	275	230-320
Temperature Range		-57° to 204°C	
Melting Point		None	
<b>Electrical Properties</b>			
Dielectric constant, (100kHz)	ASTM D 150	2.7	3.1 max
(100 HTZ)	ASTM D 150	2.98	3.1 max
Dielectric Strength, 50 Mil Gap	ASTM D 149	510V/mil	
Volume Resistivity, (ohm-cm)	ASTM D 257	1.25x10	1.0x10
Arc Resistance, seconds	CTM	94	
Dissipation Factor, (100kHz)	ASTM D 150	<0.0008	0.0025 max
(100 HTZ)		0.00013	

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**

*Release Compound* is available in 55 gallon drums (440 lb), 5 gallon pails (40 lb) or 1 gallon pails (8 lb), and 5 oz tubes.