



# Product Data

## ASI #70 Technical data sheet

### Product description

ASI #70 Silicone Compound is a moisture-resistant, translucent, non-curing paste which retains its consistency and properties over a temperature range of -50° to 200°C (-55° to 390°F).

Essentially non-toxic and non-melting, ASI #70 has excellent dielectric properties, is highly water repellent and resistant to oxidation.

Practically non-volatile, ASI #70 is also odorless and resistant to a wide range of chemicals

### Typical Uses

ASI #70 Compound is typically used where a silicone fluid would tend to migrate. The compound retains its paste-like consistency and will not soften or flow.

There are a variety of applications requiring the unique combination of ASI #70 properties including moisture resistance, high dielectric, lubricity and release characteristics.

Such applications include:

- Mold release agent for foundry shell and core molds
- Release agent for plastic extrudes and processing equipment
- Break-in treatment for bladders on tire presses.
- Mold release agent for plastic and rubber parts.
- Disconnect junctions in electrical wiring systems
- Moisture-proof seal for ignition systems and spark plug connections.
- Corrosion protection for copper conductors, battery terminals and device leads.
- Cable pulling lubricant to draw rubber-covered cable through conduit.
- Lubricant for cable connectors, rubber door seals, switches, and rubber/plastic O-rings.
- Mild chemical barrier coating.

### Directions

ASI #70 can be easily applied by brushing or wiping. For thin coatings, ASI #70 can be applied as a solvent dispersion by brushing, dipping or spraying. Suitable solvents include toluol, naphtha or chlorinated solvent.

If a thinner consistency compound is required for applications where brushing, dipping or wiping is desirable, contact you ASI representative.

ASI #70 should not be applied to any surface which will subsequently be painted or finished. Such coatings might not adhere to the silicone-treated surfaces. Contaminated parts can be wiped or washed with solvent, washed with detergent and then rinsed in clear water before painting.

For more specific information regarding the removal of a silicone compound please contact manufacturer.

### Solubility

ASI #70 is insoluble in water, alcohols and mineral oil. It is partially soluble in ketone, ether, esters, chlorinated solvents and hydrocarbons.

The suitability of a particular solvent should be based on testing prior to use. Flammability and toxicological properties should be considered in the choice.

### Chemical Resistance

ASI #700 is generally not affected by mineral and vegetable oils or air and generally resistant to dilute acids and alkalis and to most aqueous solutions.

ASI #70 should not be used with liquid oxygen or in applications requiring LOX compatibility

### Packaging

ASI #70 is supplied in 2.8 oz and 5.3 fl oz squeeze tubes.

### Storage

ASI #70 has a shelf life of 12 months from date of shipment

### Safety Precautions

ASI #70 might cause slight temporary discomfort if accidentally rubbed into eyes. It is essentially non-irritating to the skin

### Warranty

ASI warrants only that its products will meet its specifications. ASI shall in no event be liable for incidental or consequential damages. Except as expressed or implied, is limited to the state selling price of any defective goods.

## Technical Properties

|                                      |  |
|--------------------------------------|--|
| Type                                 | Silicone Compound                      |
| Appearance                           | Smooth, translucent, thixotropic paste |
| Specific Gravity                     | 0.977                                  |
| Temperature Stability                | -50° to 200° C (-55° to + 390°F)       |
| Evaporation                          | <1%                                    |
| Melting Point                        | None                                   |
| Dielectric Constant at 5 Hz          | 3.0                                    |
| Dielectric Strength                  | 182kV/cm (462 V/mil)                   |
| Dielectric Loss (tan delta at 50 HZ) | .17                                    |
| Volume Resistivity                   | $1 \times 10^{15}$ phm/cm              |

Information on this techsheet is subject to change without notice and it is therefore recommended that this information not be used for spec writing. For additional information on specific applications, contact manufacturer.