



# US-VSD-15180

## Medium Dampening 2 Part 10 ShoreA Low Durometer Silicone Rubber Gel

This is a room temperature curing silicone RTV gel. These were developed for applications requiring a fast cure silicone gel product. All are two part, 1:1 mix ratio silicone that when mixed at room temperature, cure in 180 minutes, or when exposed to heat results in a cured gel in 15 minutes. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

### Product Features

- Addition cure liquid
- Excellent moldability and conformation to plastic, metal and glass parts
- Convenient 1:1 mix ratio
- Clear silicone rubber

**Color:** Clear (custom colors available upon request)

### Typical Applications

- Clear potting or encapsulation of parts
- Electronic component vibration, shock and thermal insulation
- Dust and moisture protection
- Dielectric insulation

### Chemical cure system

Platinum catalyzed, addition cure system.

### Typical Properties

#### Uncured

|  |                        |                                 |
|--|------------------------|---------------------------------|
| Viscosity, cps: 1,000                      | Specific Gravity: 0.98 | Consistency mixed: light liquid |
| Pot-life at Room Temperature: 120 minutes  |                        |                                 |
| Cure time at Room Temperature: 180 minutes |                        | Cure time at 150 C 15 minutes   |

#### Cured

| Cured       | US-VSD-12180 | US-VSD-15180 | US-VSD-18180 | US-VSD-18240 |
|-------------|--------------|--------------|--------------|--------------|
| Shore A     | 30           | 10           | <0           | <0           |
| Shore 00    | 80           | 60           | 1 to 2       | <0           |
| Dampening   | low          | medium       | high         | very high    |
| Penetration | low          | low          | 60           | 80           |

**Mixing Instructions:** The preferred method of mixing and application of gels is by using a 1:1 mix ratio by volume or weight and then degassing. These can also be mixed and dispensed through automatic equipment.

**Depth of cure vs time :** Within 30 to 60 minutes, any depth of application filled with this product will be cured and fully encapsulated.

**Handling precautions:** Avoid contact with tin cured RTV's, sulphur compounds, azides, imides, latex rubber gloves, and amines as cure system can be deactivated

**Solids:** 98% solids, contains no solvents

**Adhesion:** Peelable & Adhesive versions available. Please specify when ordering.

**Service temperature:** -65 to 250C continuous

**Limitations:** Do not use product on head gaskets, or in solvent or fuel immersion applications. Allow to fully cure before putting assembly into service.

**Packaging:** These gels are available in 50 ml. dual syringes, one pound kits, 16 lb. kits and 80 lb. kits. These product are also available in customer defined packaging sizes, upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.

**Applicable standards:** Conforms to GM low volatility requirements.