



# US-VSD-12180

## Low Dampening 2 Part Silicone Gel RTV 30 ShoreA

**US-VSD-12180** is a room temperature curing silicone RTV gel. Developed for applications requiring a fast cure silicone gel product. This is a 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°C to 250°C 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.