

TSE3261G

Heat resistant, Flowable Silicone Adhesive

Product Description **TSE3261-G** is a one-component, flowable, heat curable silicone adhesive designed for high temperature applications. TSE3261-G adheres well to a variety of substrates, such as metals, plastics, ceramics and glass without the use of a primer.

Key Performance Properties

- Ready to use – one component
- Excellent high temperature resistance
- Heat accelerated cure
- Excellent adhesive properties, primerless adhesion to many types of substrates
- Non corrosive to metals

Applications Sealing and bonding for high temperature applications like Heaters, Steam Irons, Micro Wave Ovens.

Typical Product Data

| UNCURED PROPERTIES | | |
|-------------------------------------|-------------------|--------------------|
| Appearance | | Grey, Flowable |
| Viscosity (23°C) | Pa·s | 80 |
| CURED PROPERTIES (1hr@150°C) | | |
| Appearance | | Grey |
| Density | g/cm ³ | 1.48 |
| Hardness | Shore A | 54 |
| Tensile Strength | MPa | 4.9 |
| Elongation | % | 160 |
| Adhesive Strength | MPa* | 1.8 |
| Volume Resistivity | ohm.cm | 2x10 ¹⁵ |
| Dielectric Strength | kV/mm | 22 |
| Dielectric Constant (60 Hz) | | 3.3 |
| Dielectric Loss (60Hz) | | 0.02 |
| Thermal Conductivity | W/m.K | 0.41 |

* = Aluminium lap shear

Specifications Typical product data values should not be used as specifications. Assistance and specifications are available by contacting Momentive performance materials Technical Service RTV1 and RTV2.

Instructions for Use **Compatibility**

TSE3261G silicone adhesive will cure in contact with most clean, dry surfaces. However, certain materials such as water, sulfur, nitrogen compounds, organic metallic salts, phosphorus compounds, etc. contained in the surface of the substrate can inhibit curing. Cure inhibition is characterized by a gummy appearance of TSE3261G silicone adhesive at the interface between the adhesive and the substrate to be bonded. A sample patch test should always be conducted before proceeding to determine compatibility.

Surface Preparation

The adhesive performance of any polymer system is highly dependent upon proper surface preparation. In order to maximize the adhesion of TSE3261G silicone adhesive and minimize the potential for cure inhibition, all parts should be as clean and dry as possible prior to the application of the adhesive.

Bonding

TSE3261G silicone adhesive offers outstanding adhesion characteristics to a wide variety of different substrates without the need of a primer.

Suitable substrates are: Aluminum, Copper, Ni plated, Stainless Steel, PPS, PBT, Epoxy resin, Polyester, Phenolic resin, Heat Cured Silicone Rubber, Glass, Ceramics

No adhesion will be obtained on: PP, PE, Fluorocarbon resin, RTV Silicone Rubber, Sulfur vulcanized rubbers, Fluorocarbon rubber

For difficult-to-bond-to substrates, or where more aggressive chemical adhesion is desired, the adhesion may be enhanced by using SS4120 or SS4155 silicone primers, available from Momentive performance materials. To apply the primer, thoroughly clean the surface and let dry. Then apply a uniform film (0.01-0.02 mm) of silicone primer and allow the primer to air-dry for one hour or more.

Curing

TSE3261G silicone adhesive requires the use of elevated temperatures in order to achieve full cure. Typical cure times and temperatures are as follows:

| Temperature | Cure Time |
|-------------|-----------|
| 120°C | 2 hours |
| 150°C | 1 hour |
| 180°C | 10 mins. |



The actual cure time is affected by such things as cross-sectional thickness of the TSE3261G silicone adhesive, heat capacity of the overall assembly and efficiency and type of oven used (i.e. convection, infrared).

Handling and Safety

Material Safety Data Sheets are available upon request from Momentive performance materials. Similar information for solvents and other chemicals used with the Momentive performance materials products should be obtained from your supplier. When solvents are used, proper safety precautions must be observed.

**Storage and Warranty
Period**

The shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 4 months when stored in the original unopened containers between **0 and 10° C**.

Availability

TSE3261G is available in 1.5 kg cans.



PRINCIPAL LOCATIONS – Regional Information

| | | | |
|--|---|---|--------------------|
| North America | World Headquarters 187 Danbury Road Wilton, CT 06897, USA | T 800.295.2392 | F 607.754.7517 |
| Latin America | Rodovia Eng. Constâncio Cintra, Km 78,5 Itatiba, SP – 13255-700, Brazil | T +55.11.4534.9650 | F +55.11.4534.9660 |
| Europe, Middle East, Africa and India | D-51368 Leverkusen Germany | T 00.800.4321.1000 T +31.164.293.276 | F +31.164.241.750 |
| Pacific | Akasaka Park Building - 5-2-20 Akasaka Minato-ku, Tokyo 107-6112 Japan | T +81.3.5544.3100 | F +81.3.5544.3101 |

CUSTOMER SERVICE CENTERS

| | | | |
|--|---|---|--------------------|
| North America | Charleston, WV 25314, USA E cs-na.silicones@momentive.com | | |
| | • Specialty Fluids | T 800.523.5862 | F 304.746.1654 |
| | • UA, Silanes, Resins, and Specialties | T 800.334.4674 | F 304.746.1623 |
| | • RTV Products-Elastomers | T 800.332.3390 | F 304.746.1623 |
| | • Sealants and Adhesives & Construction | T 877.943.7325 | F 304.746.1654 |
| Latin America | E cs-la.silicones@momentive.com | | |
| | • Argentina & Chile | T +54.11.4862.9544 | F +54.11.4862.9544 |
| | • Brazil | T +55.11.4534.9650 | F +55.11.4534.9660 |
| | • Mexico & Central America | T +52.55.5899.5135 | F +52.55.5899.5138 |
| | • Venezuela, Ecuador, Peru, Colombia, & Caribbean | T +58.212.285.2149 | F +58.212.285.2149 |
| Europe, Middle East, Africa and India | E cs-eur.silicones@momentive.com | T 00.800.4321.1000 T +31.164.293.276 | F +31.164.241750 |
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| Pacific | • Japan | T +81.276.20.6182 | |
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