# 8334 Technical Data Sheet
## *Super Glue, Gel*



## Description

The 8334 *Super Glue, Gel* is a quick curing, solvent-less, high viscosity cyanoacrylate adhesive.

## Applications & Usages

Its primary application is to bond parts together without the need for heat or pressure. This adhesive is well suited to bond rubber to rubber, plastic to plastic, rubber to metal, and plastic to metal applications.

This adhesive is not intended as a structural adhesive to join load bearing structures.

## Benefits and Features

- **Bonds a wide variety of substrates**
- **Typical handling time of only 25 seconds**
- **Strong chemical resistance**

**ENVIRONMENT**
✓ RoHS
✓ REACH compliant

## Usage Parameters

| *Properties* | *Value* |
|---|---|
| Typical Handling Time [a)] | 25 s |
| Service Cure [a, b)] @22 °C [72 °F] | >24 h |
| Cure Type | Humidity |
| Shelf Life | 3 y |

a) Assumes 50% relative humidity.
b) As well as humidity, the type of material being boded, bond gap, and temperature, may change the cure time.

## Temperature Ranges

| *Properties* | *Value* |
|---|---|
| Constant Service Temp. | -55 to 80 °C [-67 to 176 °F] |
| Storage Temperature of Unmixed Parts | 5 to 22 °C [41 to 72 °F] |

## Principal Components

| **Name** | ***CAS Number*** |
|---|---|
| Ethyl-2-cyanoacrylate | *7085-85-0* |



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## Properties of Cured 8334

| ***Physical Properties*** | ***Method*** | ***Value*** |
|---|---|---|
| Color | Visual | Clear |
| Density @25 °C [79 °C] | | 1.05 g/cm$^3$ |
| Lap Shear Strength | ISO 4587 [b)] | |
| (Stainless Steel) | <30 s fixture time | >14.5 N/mm$^2$ [>2 100 lb/in$^2$] |
| (Aluminum) | <25 s fixture time | >12.1 N/mm$^2$ [>1 750 lb/in$^2$] |
| (ABS) | <20 s fixture time | >6.2 N/mm$^2$ [>900 lb/in$^2$] |
| (PVC) | <15 s fixture time | >6.2 N/mm$^2$ [>900 lb/in$^2$] |
| (Polycarbonate) | <30 s fixture time | >6.2 N/mm$^2$ [>900 lb/in$^2$] |
| (Phenolic Rubber) | <25 s fixture time | >6.2 N/mm$^2$ [>900 lb/in$^2$] |
| (Neoprene) | <10 s fixture time | >5.2 N/mm$^2$ [>750 lb/in$^2$] |
| Butt Joints Tensile Strength (Stainless Steel) | ISO 6922 | >12.4 N/mm$^2$ [>1 800 lb/in$^2$] |

| ***Electrical Properties*** | ***Method*** | ***Value*** |
|---|---|---|
| Volume Resistivity | ASTM D 257 | ≥2 × 10$^{15}$ Ω·cm |
| Dielectric Dissipation & Constant | | *dissipation, D* *constant, k'* |
| @1 kHz | ASTM D 150-98 | 0.02 2 to 3.5 |

*Note:* Specifications are for sample cured at 50% relative humidity for at least 24 hours.
a) N/mm$^2$ = MPa; lb/in$^2$ = psi
b) The fixture time is the time required to develop a shear strength of 0.1 N/mm$^2$. This corresponds to the strength at which the parts may no longer be moved independently.

## Storage

Store between 5 °C to 22 °C [41 and 72 °F] in a dry area away from sunlight.

## Compatibility

**Adhesion—**As seen in the substrate adhesion table, the 8334 adheres to a wide variety of materials.

### Materials Subject to Bonding

| *Natural* | *Plastics/Polymers* | *Ceramics* | *Metals* |
|---|---|---|---|
| Latex<br>Leather<br>Paper, Fiber<br>Fabric<br>Rubber<br>Wood | ABS<br>Acrylic<br>Bakelite<br>EPDM<br>Fiberglass<br>NBR (nitrile rubber)<br>Neoprene<br>Nitrile<br>Phenolic<br>Polybutylene Terephthalate<br>Polycarbonate<br>Polyester<br>PVC<br>Styrene-Butadiene rubber | Porcelain | Aluminum<br>Brass<br>Chrome<br>Copper<br>Steel |

*Note:* The MG 8334 Super Glue is not compatible with contaminants like oil, and greases that may affect adhesion. If contamination is present, clean the surface with a suitable cleaner such as MG Chemicals 4050 Safety Wash, 406B Superwash, or 824 Isopropyl Alcohol.

**Chemical Resistance—**To test the chemical resistance, the adhesive was aged in various chemicals and the strength of the adhesive bond was compared to that of control specimens.

### Retained Adhesive Strength and After Chemical/Solvent Exposure

| *Chemical/Solvent* | *Conditions/Temperature (°C)* | *Exposure Duration (hour)* | *Percent of Initial Strength* |
|---|---|---|---|
| Gasoline | 22 °C | 500 | 100% |
| Isopropanol | 22 °C | 500 | 100% |
| Ethanol | 22 °C | 500 | 100% |
| Freon | 22 °C | 500 | 100% |
| Motor Oil | 40 °C | 500 | 100% |
| Polycarbonate | 40 °C @95% RH | 500 | 100% |

To remove the 8334 adhesive, you can use acetone.

## Health, Safety, and Environmental Awareness

Please see the 8334 **Safety Data Sheet** (SDS) for details on transportation, storage, handling and other security guidelines.

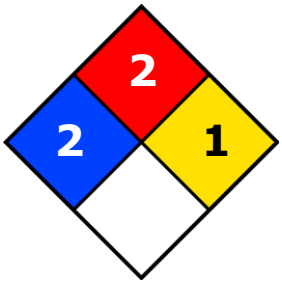
***Health and Safety:*** DANGER: Hazardous Adhesive

Do not get in eyes, on skin, or clothing. Do not breathe vapor. Use with adequate ventilation. Do not use near sparks, heat, or open flames. Contact will result in rapid bonding of tissues and may bond skin-to-skin or to other materials. The cured adhesive presents no known hazard.

**HMIS® RATING**

| | |
|---|---|
| **HEALTH:** | * 2 |
| **FLAMMABILITY:** | 2 |
| **PHYSICAL HAZARD:** | 1 |
| **PERSONAL PROTECTION:** | |

**NFPA® 704 CODES**




*Approximate HMIS and NFPA Risk Ratings Legend*:
0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

## Application Instructions

For best results, follow the procedure below.

**To bond surfaces**

1. Clean the surface to be bonded and let dry.
2. Remove cap.
3. Apply the adhesive directly on the surface and immediately hold the surface together for at least 25 seconds until the adhesive has fixtured.

**NOTE:** Remember to recap the syringe promptly after use.

**TIP:** Wiping the surface with a damp cloth prior to application can promote bonding.

## Packaging and Supporting Products

| *Cat. No.* | *Packaging* | *Net Volume* | *Shipping Weight* |
|---|---|---|---|
| **8334-3G** | Tube | 50 mL 1.69 fl.oz | 0.46 kg [a] 1 lb |

a) Pack of twenty-four

## Technical Support

Contact us regarding any questions, suggestions for improvements, or problems with this product. Application notes, instructions and FAQs are located at www.mgchemicals.com.

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## Warranty

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