

EPOXY CEMENTS (Cont.)

Self Leveling Potting Silicone

GC Electronic Grade Self Leveling Potting Silicone Sealant

Electronic Grade Self Leveling Silicone is a one-component, RTV (room temperature vulcanizing) product that uses new cross-linking mechanism as a cure method. No acetic or other corrosive by-products are generated during the curing process. It can be used in corrosion sensitive electrical or electronic equipment with no adverse effect and cures at room temperature.

Temperature Range (after cure): -57°C to +204°C (-70°F to +400°F)

Dielectric Strength: 452 V/mil (173 KV/cm)

Thermal Expansion $9 \times 10^4 \text{ 1/K}$

Coefficient: 0°C to 100°C (32°F to 212°F) **Volume Resistivity:** >2.19 x 10^{15} Ohm/cm

Part No. 19-160 10.2 fl. oz. Caulk Tube, Clear



Part A



Part B

Thermally Conductive Potting Epoxy and Adhesive

This potting Epoxy and adhesive is a highly filled medium viscosity black casting resin formulated for application requiring a high degree of thermal conductivity. Mix ratio 1:1. It contains abrasive aluminum oxide filler which can introduce wear considerations. Cure is normally achieved at room temperature, although an elevated cure schedule can be used to reach final properties quickly.

Temperature Range: -40°C to 150°C (40°F to 300°F)

Dielectric Strength: 430 V/mil **Thermal Conductivity:** 7.34 (Btu * in/ft ² hr °F)

Thermal Expansion
Coefficient: 44 (x 10⁶ °C)

Volume Resistivity: 2.14 x 10¹² Ohm/cm

Part No. 19-161 2-4 oz. Containers

CYANOACRYLATE ADHESIVES & DEBONDERS

"Instant bonding" cyanoacrylate adhesives cure in seconds, do not depend on evaporation of solvents and require no clamping. They are colorless and moisture resistant. They are ideal for bonding metals, plastics, rubber, glass and ceramics to each other or to dissimilar materials. Bonding strength up to several thousand psi is possible making them among the strongest adhesives available. These adhesives are economical, as only a drop is required. The best type should be determined by experimentation. Use them to repair broken plastic cabinets and other plastic items, attaching nameplates and rubber feet to panels and chassis, cementing broken ceramic glass and rubber items, repairing jewelry, etc. Porous surfaces may be bonded with Gelweld No. 19-0117. The average setting time is between 10 and 100 seconds, after which the cemented articles can be handled. These adhesives may even be used to bond surfaces which are normally difficult to cement, such as teflon, polyethylene, vinyl, silicone rubber and glass.



GR-R-RIP (Pb)





World famous Ethyl Cyanoacrylate rapid bonding adhesive in gravity fed bottle. Bond strength not affected by temperatures from -60°C to 85°C (-76°F to 185°F).

Part No. 19-115 0.106 fl. oz. Bottle



GC Super Adhesive

Ethyl Cyanoacrylate Adhesive



Forms strong, lasting bonds in seconds between either similar or dissimilar materials metal, porcelain, plastic, glass, most rubbers, hardwoods, and other non-porous materials with smooth, close-fitting surfaces. The bond resists softening at temperatures up to 320°F (160°C). Your most versatile adhesive for bonding, attaching, fixturing. Cures to a strength of 5000 psi; because it is solvent-free, there is no shrinking during curing and no solvent fumes. Fills gaps to .003".

Meets Mil. Spec. MIL-A-46050C Type I Class 2.

Part No. 10-128 1 fl. oz. Bottle



GC Super Glue Regular Formula

Ethyl Cyanoacrylate Adhesive



Medium viscosity formula for efficient wicking action, faster curing time. Excellent for bonding any combination of plastic, rubber or metal parts. This grade is ideal for small or fine work on non-porous, smooth surfaces. It fills gaps of .003-.005". Highly resistant to acid, alkali, alkali water, solvents and fungus. Non-toxic.

Meets Mil. spec. MIL-A-46050B Type 1 Class 2.

Part No. 10-120 0.075 fl. oz. Tube





Ethyl Cyanoacrylate super strength adhesive in a "gel" form – will not drip or run. Fills gaps well.

Part No. 19-117 0.101 fl.oz. Tube



GC Electronics Product Name: GR-R-RIP

MSDS Number: 215

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Cyanoacrylate Adhesive

Product Name: GR-R-RIP
Part Number(s): 19-115

Section 1 - Identification of Product

HMIS Rating: Least 0 Slight 1 2 2 Moderate Health 3 Flammability 2 High Reactivity Extreme 4 Personal Protection C See Section 8 for details

Manufacturer's Material Safety Data Sheet

Trade Name: Brush-on Liquid

Section 2 - Hazardous Ingredients

Hazardous Ingredient CAS# % by Weight Exposure Limits

Ethyl 2-cyanoacrylate 7085-85-0 95-99 TWA: 0.2 (ppm) from ACGIH (TLV)

TWA: 1 (mg/m³) from ACGIH (TLV)

Section 3 - Physical Data

Physical State and Appearance: Liquid. (Transparent Liquid) Odor: Acrid

Taste: Not available

Color: Clear Transparent. (Light)

Molecular Weight: Mixture
Molecular Formula: Mixture
pH (1% Soln/Water): Basic

Boiling/Condensation Point: >190°C (374°F)
Melting/Freezing Point: Not available
Critical Temperature: Not available
Specific Gravity: 1.05 (Water = 1)

Vapor Pressure: The highest known value is 0.3mm of Hg (@ 20°C) (Ethyl 2-cyanoacrylate)

Vapor Density: The highest known value is >1 (Air = 1) (Ethyl 2-cyanoacrylate)

Volatility: Not available Odor Threshold: Not available

Part Number(s): 19-115 Page 1 of 6

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Evaporation Rate: Not available

VOC: 1%

Viscosity: Dynamic: 45cP LogK Not available Ionicity (in Water): Not applicable

Dispersion Properties: Is not dispersed in cold water, hot water

Solubility: Insoluble in cold water Physical Chemical Comments: Insoluble in water

Section 4 - Fire & Explosion Hazard Data

Flammability of the Product: Combustible Auto-ignition Temperature: Not available

Flash Points: The lowest known value is CLOSED CUP: 79°C (174.2°F), (Ethyl

2-cyanoacrylate)

Flammable Limits: Not available Products of Combustion: Not available

Fire Hazards in Presence of

Various Substances: Not available

Explosion Hazards in Presence

Of Various Substances: None known

Fire Fighting Media and

Instructions: SMALL FIRE: Use DRY chemical powder

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Protective Clothing (Fire): Vapor respirator or a self contained breathing apparatus

Special Remarks on Fire Hazards: No additional remark Special Remarks on Explosion Hazards: No additional remark

Section 5 - Health Hazard Data

Routes of Entry: Inhalation

Potential Acute Health Effects

Eyes: Slightly hazardous in case of eye contact (irritant)

Skin: Bonds skin instantly

Inhalation: Concentrated vapors are hazardous if inhaled

Ingestion: No known hazard

Potential Chronic Health Effects: Repeated use may result in irritation of mucous membrane and upper respiratory

tract

Medical Conditions Aggravated

By Overexposure: Repeated or prolonged exposure is not known to aggravate any medical

condition.

Overexposure Signs/Symptoms: Side effects are asthma, bronchitis & other chronic lung conditions/upper

respiratory tract irritant.

Part Number(s): 19-115 Page 2 of 6