**TESTS CONDUCTED** 

Adhesive Tensile Shear ASTM D 1002

Dielectric Constant ASTM D 150

Coef. of Thermal Expansion ASTM D 696

Volume Resistivity, ohm/cm ASTM D 149

Dielectric Strength, volts/mil ASTM D 149



## Permatex® Zip Grip® GPE 15

**Description:** A single component low viscosity, fast setting, cyanoacrylate adhesive

**Intended Use:** Ideal for fast setting bonds for rubber bonding applications

Product Easy to apply features: Fixtures in seconds

Permanent

Enhanced toughness to peel and shock loads Highly resistant to aging and weathering

**Rubber Bonder** 

Limitations:

Typical Physical Properties: Technical data should be considered representative or typical only and should not be used for specification purposes.

Cured 7 days @ 75° F

**Adhesive Tensile Shear** 3,200 psi Coefficient of Thermal Expansion .000126 in./in./ °F **Dielectric Constant** 5.4 @ 1 Kc 11.6 KV/mm **Dielectric Strength** 185°F Flashpoint **Full Cure** 24 hours 329°F **Melting Point** Refractive Index 1.49 -65° to 200°F Service Temperature Range

Shelf Life 1 year

Solubility Nitromethane, Acetone,

Volume Resistivity 5.3E-14 ohm/cm

Uncured

Base Ethyl cyanoacrylate Color Colorless Liquid

Cure Speed 5-10 sec. (Steel): 4-10 sec. (Plastics): <3 sec.

Gap Filling 0.005"

Military Specification Mil-A-46050C Type II Class 1

Specific Gravity 1.06 g/cc Viscosity 15 cps

Surface Preparation: Clean surface by solvent-wiping any deposits of heavy grease, oil, dirt, or other contaminants. Surface can also be cleaned with industrial cleaning equipment such as vapor phase degreasers or hot aqueous baths.

---- CLEANING METHODS ----

STEFL

Vapor degrease or cold-solvent clean (Sand blasting or other preparation is not typically required).

ALUMINUM:

Abrade with Scotch-Brite™ abrasive pads or steel wool, then clean with solvent.

**RUBBER:** 

Wipe clean with isopropyl alcohol or solvent.

PLASTICS

Lightly abrade shiny, smooth surfaces, then solvent-wipe with suitable solvent such as 1,1,1-trichloroethane, acetone, or VM&P naptha. Non-shiny surfaces need only be solvent-wiped.

Mixing Instructions: Mixing is not applicable to this product.

## Application Instructions:

- 1. Apply adhesive directly from bottle [approx .006 gms per sq. in is sufficient]
- 2. Press surfaces together
- 3. Hold tightly for a few seconds

## ADDITIONAL PRODUCT INFORMATION

- Cyanoacrylates fixture in a few seconds on most smooth, close fitting substrates
- -They cure best at room temperature [72°F]
- -Heat does NOT accelerate the cure of cyanaoacrylates
- -The gap of the bond line will affect set speed. Smaller gaps tend to increase the speed.
- -Activators can be appied to improve set speed but may also impair overall performance.

Storage: Store in a cool, dry place.

Compliances: CID A-A-3097, Type II, Class 1

USP VI / ISO 10993

Chemical Resistance:

Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75 °F)

| 1,1,1-Trichloroethane | Excellent |
|-----------------------|-----------|
| Gasoline (Unleaded)   | Excellent |
| Hydrochloric 10%      | Poor      |
| Motor Oil             | Excellent |
| Sodium Hydroxide 10%  | Poor      |

Precautions:

Please refer to the appropriate material safety data sheet (MSDS) prior to using this product.

For technical assistance, please call 1-800-933-8266

FOR INDUSTRIAL USE ONLY

Warranty:

Devcon will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

Disclaimer:

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Devcon makes no representations or warranties of any kind concerning this data.

Order Information:

70213 1/3 oz. bottle