

## TECHNICAL DATA SHEET

### SUPER GLUE PART NO. 49431

#### PHYSICAL PROPERTIES

##### MONOMER (Liquid)

Base Compound ..... Ethyl Cyanoacrylate  
Appearance.....Colorless Liquid  
Viscosity (cps @ 68°F) ..... 100 cP  
Specific Gravity (g/cc).....1.06  
Flash Point (TCC) ..... 185°F  
Shelf Life @ 40°F ..... One year in unopened containers  
Setting Time: (68°F, 65%R.H.)  
Metal/Metal.....20 seconds  
Plastic/Plastic .....7 seconds  
Rubber/Rubber .....5 seconds  
Military Specifications..... Mil-A-46050C Type II, Class 2

##### POLYMER (Cured)

Appearance..... Colorless Solid  
Service Temperature Range ..... -65°F to 200°F  
Softening Point..... 329°F  
Refractive Index (ND 20) .....1.49  
Full Cure Time..... 24 Hours  
Dielectric Strength KV/mm .....11.6  
Dielectric Constant @ 1Kc ..... 5.4  
Coefficient of Thermal Expansion (in./in./F) .... .000126  
Tensile Strength:  
Steel/Steel ..... 3200 psi  
Solubility.. Nitromethane, Acetone, Dimethylformamide



#### DESCRIPTION

*Dynatex® Super Glue* is a fast setting, low to medium viscosity adhesive designed to bond close fitting surfaces quickly. *Dynatex® Super Glue* offers viscosity and flow characteristics that are ideal for filling small gaps. *Dynatex® Super Glue* sets in seconds to form a permanent, transparent bond. Effective on metal, rubber, glass aluminum, ceramics, vinyl, alloys, plastics and other non-porous surfaces.

#### TYPICAL APPLICATIONS

- Automotive trim
- Minor interior repairs
- knobs
- Logos
- Household repairs and more...

#### FEATURES

- Ready to use
- No mixing
- Permanent, transparent bond
- Fills gaps to .004"
- Holding strength to 5000 psi

#### PERFORMANCE OF CURED MATERIALS

(Tensile shear strength, cured for 48 hours @ 20-25°C (68-77°F))

Substrate	Range in N/mm <sup>2</sup>
Blasted Steel	19 to 26
Etched Aluminum	14 to 21
Neoprene	>10
ABS	>6
Polycarbonate	>5
PVC	>6

## DIRECTIONS FOR USE

1. Make sure the surfaces to be bonded are clean and dry.
2. Dispense a drop or drops to one surface only. Apply only enough to leave a thin film after compression.
3. Press parts together and hold firmly for a few seconds. Good contact is essential. An adequate bond develops in less than one minute. (Maximum strength is achieved in 24 to 48 hours.)
4. Wipe off excess adhesive from the top of the container and recap. *Dynatex® Super Glue*, if left uncapped, may deteriorate by contamination from moisture in the air.
5. Because *Dynatex® Super Glue* condenses by polymerization, sometimes whitening will occur on the surface of the container or the bonded materials. Should this happen, wipe surfaces well with acetone.

## CHEMICAL RESISTANCE

### Steel to Steel.....Tensile Shear Strength

	Before Soak	After 12 Months Soak
	N/mm <sup>2</sup>	N/mm <sup>2</sup>
<b>Trichloroethylene</b>	21.17	21.17
<b>Gasoline</b>	21.17	21.17
<b>Motor Oil</b>	21.17	21.17
<b>Water</b>	21.17	0
<b>10% NaOH</b>	21.17	0
<b>10% Hcl</b>	21.17	0

### SETTING TIME (68°F, 65% R.H.)

Steel.....	10 to 20 seconds
Aluminum.....	7 to 15 seconds
Neoprene.....	<5 seconds
ABS.....	5 to 10 seconds
Polycarbonate.....	10 to 20 seconds
PVC.....	10 to 20 seconds

## STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 90°F (32°C), *Dynatex® Super Glue* has a shelf life of 12 months from date of shipment.

In Countries where high heat and humidity are a factor, special precautions must be taken. Store product in a covered, well-ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity conditions may reduce shelf life by up to 30%. Rotation of stock is an absolute necessity. Cartons should always be stacked upright. DO NOT stack cartons on their side. **NEVER** stack cartons more than 8 high. DO NOT store within 1 meter (4 feet) of roofline of the warehouse or storage building.

## USERS PLEASE READ

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

Likewise, if the application, product specifications or manner in which our products are used requires government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

**Non-warranty:** Because the storage, handling and application of the material is beyond Dynatex control, we can accept no liability for the results obtained. Dynatex sole limited warranty is the product meets the manufacturing specifications in effect at time of shipment. There is no warranty of merchantability or fitness for use, nor any other express or implied warranty. Dynatex will not be liable for incidental or consequential damages of any kind. The exclusive remedy for breach of such limited warranty is a refund of purchase price or replacement of any product shown to be other than as warranted. Suggestions of uses should not be taken as inducements to infringe any patents.

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