# Instant Gel

## One Component Ethyl Cyanoacrylate Gel

Version 1.0
Update : 08/2021

### SMART BENEFITS

- Multi-material adhesion
- High Strength
- Instant adhesion
- Rapid Assembly
- Vertical Applications

### DESCRIPTION

Instant Gel is designed for the rapid assembly of difficult-to-bond materials which require uniform stress distribution and strong tension and shear strength. The product has excellent bonding properties to a very broad range of materials, including metals, plastics and elastomers. Instant Gel is particularly suited for bonding porous or absorbent materials such as wood, paper, leather and fabric. The gel nature of the material allows for vertical applications.

### METHOD OF USE

-Before applying the adhesive, make sure the surface is clean, dry and free of grease.
-Apply adhesive to one of the surfaces. Do no use items like tissues or a brush to spread the adhesive.
-Assemble the parts proper alignment as the short fixture time leaves little opportunity for adjustment.
-Bonds should be held fixed or clamped until adhesive has fixture.
-Product should be allowed to develop full strength before subjecting to any service loads (typically 24 to 72 hours after assembly, depending on bond gap, materials and ambient conditions)

### PROPERTIES

| FIXTURE TIME @23°C | | |
|---|---|---|
| **Substrate** | | |
| **Beech Wood** | **[s]** | 10-20 |
| **Mild Steel** | **[s]** | 10-20 |
| **ABS** | **[s]** | 10-20 |
| **Polycarbonate** | **[s]** | 10-20 |

| TECHNICAL DATA | | |
|---|---|---|
| **CHARACTERISTIC** | | **VALUE** |
| **Base** | | Ethyl Cyanoacrylate |
| **Viscosity** Brookfield at 25°C | **[mPa.s]** | 100.000 to 150.000 |
| **Color** | | Clear Gel |

*Substrate failure

### STORAGE STABILITY

Shelf life is 12 months @ 23°C in the unopened container which is in a fresh and dry location, protected from light. For better long term performance, it is always recommended to refrigerate the products (4-8°C).

| BONDING PERFORMANCE | | |
|---|---|---|
| **Substrate** | | **@22°C** |
| **Beech Wood** | **[MPa]** | 8-10* |
| **Mild Steel** | **[MPa]** | 5-6 |
| **Aluminum** | **[MPa]** | 5-7 |
| **Polycarbonate** | **[MPa]** | 10-14 |

*Substrate Failure

### HEALTH AND SAFETY

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials. For safe handling information on this product, consult the Safety Data Sheet (SDS).



### SMART HELP

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