

## ADBOND 5034 Cyanoacrylate Adhesive

### DESCRIPTION

ADBOND 5034 is a high viscosity with medium cure speed, ethyl cyanoacrylate adhesive. It is specially formulated for application requiring high viscosity and realignment of the specific part. ADBOND 5034 develops strong bonds on most metals, plastics and rubber compounds.

### PHYSICAL PROPERTIES

Uncured	
Color	clear
Base	Ethyl
Viscosity	2500 cPs @ 25°C (77°F)
Setting time	Plastics : 15 – 30 seconds Steel : 15 – 35 seconds Aluminum : 10 – 20 seconds Rubbers : < 5 seconds Leather : 5 – 15 seconds Ceramics : 12 – 18 seconds
Shelf life	12 months

Cured	
Gap filling	0.02 inch
Tensile shear strength	2611 – 4061 psi
Service Temperature range	-68°C – 80°C (-90.4°F – 176°F)
Melting point temperature	160°C – 170°C (320°F – 338°F)
Full cure	24 hours
Shear strength (D1002)	value
Grit blasted steel	>3190 psi
Etched aluminium	>3190 psi
Rubbers	>1740 psi
Wood	>3626 psi
ABS	>1160 psi
Polycarbonate	>1160 psi
Coefficient of thermal conductivity (ASTM C177)	0.1 W.m <sup>-1</sup> k <sup>-1</sup>
Glass transition temperature (ASTM E228)	120°C ( °F)
Coefficient of thermal expansion (ASTM D696)	100 x 10 <sup>-6</sup> K <sup>-1</sup>
Dielectric strength (ASTM D149)	25 kV/mm
Volume resistivity (ASTM D257)	1 x 10 <sup>16</sup> Ohm.cm
Dielectric constant at 25°C (ASTM D150)	2.3

**ADBOND 5034**  
**Cyanoacrylate Adhesive****CHEMICAL RESISTANCE PROPERTIES**

chemical	temperature	% initial strength retained after 500 hours	% initial strength retained after 1000 hours
Isopropanol	22°C (72°F)	85	85
Gasoline	22°C (72°F)	80	75
Motor oil	40°C (104°F)	90	90
Mineral spirit	22°C (72°F)	90	90

**APPLICATIONS**

- Application requiring alignment time up to 20 seconds
- Bonding of a wide variety of metals, plastics, rubber compounds
- Wide variety of industrial manufacturing and repairing applications

**DIRECTIONS FOR USE**

- Make sure the surfaces to be bonded are clean, dry, dust and grease free. Best result will be achieved with surfaces that have been lightly abraded immediately prior to bonding.
- If using accelerator ADBOND 5051 apply to one component surface only. Apply thin film of adhesive to the other surface and bring the pieces together immediately. Hold for a few seconds without disturbing the joints.
- When bonding “ O “ rings, cut a fresh surface onto each other end of the rubber to gain the best possible strength
- Wipe off excess adhesive from the top of the container and recap ADBOND 5034. If left uncapped, may deteriorate by contamination from moisture in the air.
- Because ADBOND 5034 condenses by polymerisation, sometimes whitening will occur on the surface of the container or bonded materials. Should this happen, wipe surfaces well with ADSOLV DM60060

**STORAGE**

ADBOND 5034 is ideally stored in a cold, dry location in unopened containers. Optimal storage is under 10°C (50°F). To prevent contamination of unused product, do not return any material to its original container.

**CAUTION**

Use with proper ventilation. Avoid contact with eyes and skin. Always consult sds before using the adhesive. For industrial use only. For more information, please contact your technical representative.

**ADBOND 5034**  
**Cyanoacrylate Adhesive****IMPORTANT****READ CAREFULLY**

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