



ChemTools 8382 Cyanoacrylate Adhesive High Viscosity

ChemTools 8382 is high viscosity combined with fast cure speed, one component adhesive especially recommended for electronic applications. This product is formulated for use with ChemTools activators for tacking electronic components.

APPLICATIONS:

- Ideal for bonding Rubbers, Plastics and Metals.
- Ideal for tacking jumper wires and wires to coil formers. Small appliances, Electronic parts, Computer peripherals, etc.
- Mounting stand-offs, edge guides and stiffeners to circuit boards.

PHYSICAL PROPERTIES:

Liquid

Composition	Ethyl Cyanoacrylate
Appearance	Clear liquid
Viscosity @ 25°C Brookfield RTV	5,000 cps
Flashpoint (TCC), °C	>87
Specific Gravity @ 25°C	1.05

Cured Adhesive

Gap Filling	0.7mm
Tensile Shear Strength	13-28 N/mm ²
Full Cure	24 hours
Glass Transition Temperature ASTM E228	135°C

Shear Strength ASTM D 1002, DIN 53283

Neoprene Rubber	>12N/mm ²
Nitrile Rubber	>12N/mm ²
SBR Rubber	>10N/mm ²
PVC	>6N/mm ²
Aluminium	>19N/mm ²
Steel	>28N/mm ²
Polycarbonate	>7N/mm ²
ABS	>7N/mm ²



Electrical Properties:

Dielectric Strength, ASTM D149, V/mil	625
Coefficient of thermal expansion, ASTM D696, K ⁻¹	90 x 10 ⁻⁶
Coefficient of thermal conductivity, ASTM C177, W.m ⁻¹ K ⁻¹	0.1

Chemical Resistance Properties:

Chemical	Temperature	%Initial Strength Retained	
		500 hrs	1000 hrs
Isopropanol	22°C	85	85
Petrol	22°C	80	75
Motor Oil	40°C	90	90
Mineral Spirit	22°C	90	90

APPLICATION INSTRUCTIONS

- All surfaces must be clean, dry, dust and grease free. Best result will be achieved with surfaces that have been lightly abraded immediately prior to bonding.
- Apply ChemTools 81155 activator to the area to be bonded by spray or brush.
- Allow the activator enough time to evaporate, under good ventilation, until the surfaces are completely dry.
- Apply cyanoacrylate adhesive immediately upon drying. Secure the assembly and wait for surfaces to fixture before any further handling.

PRECAUTIONS: This product and the auxiliary materials normally combined with it are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the material.

Warranty: All products purchased from or supplied by ChemTools are subject to terms and conditions set out in the contract. ChemTools warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by ChemTools is considered accurate but are furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. ChemTools makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will not infringe any patent.