



TRULOC Technical Data Sheet

Superset 47

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Product Description

Truloc Superset 47 is a medium viscosity, ethyl based cyanoacrylate adhesive. Superset 47 is designed for the rapid bonding of plastics and rubbers. It features extremely fast fixturing times and good weathering resistance. It is ideal for bonding models and toys, emblems, plastic knobs and insulating trim.

Typical Applications

Magnet bonding
Bonding of loudspeaker parts
Steel and PVC instrument bonding
Plastic fans to plastic motor housings
Bonding of ceramics
Metal sleeves to rubber collars
General bonding where fast setting and small gap fill is required

Product Benefits

One part adhesive - no mixing
Eliminates many mechanical fasteners
Replaces slower curing adhesives
Replaces expensive jigs and fixtures.

Fixturing

Fixturing time is defined as the time after part assembly when the joint has developed a tensile shear strength of 0.1 N/mm² measured 22°C. The relative humidity of the surrounding atmosphere can greatly affect the speed of cure of cyanoacrylate. The relative humidity best suited for bonding with cyanoacrylate adhesive Superset 47 is between 40% and 60%.

Performance of cured Superset 47

Shear strength, ASTM D1002 in N/mm²

Steel (degreased)	17-26
Etched Aluminium (degreased)	11-18
ABS	6-19
Polycarbonate	5-20
Nitrile rubber	5-15
Neoprene Rubber	5-15

Typical Properties of uncured material

Monomer	Ethyl cyanoacrylate
Appearance	Clear liquid
Viscosity	120 cps
Toxicity	Non toxic
Flash point (coc)	85°C
Shelflife	Minimum 1 year stored at 5-25°C
Specific gravity 25° C	1.05

Physical properties of cured material

Full strength achieved after 12 hours at 22°C on most surfaces	
Recommended gap	0.05
Maximum gap	0.1
Softening point ° C	170



Solvent Resistance

Excellent solvent resistance to Kerosene, ethylene glycol, Hcl and water. Even after two weeks immersion at 20 degrees centigrade, the bonds on aluminium lapshears retained from 85-90% of their original strength.

Activators

To increase rate of cure or for extremely inactive surfaces use Truloc Activator 171.

Surface Preparation

A solvent wipe is usually sufficient for most surfaces. Optimum performance can be achieved on lightly sanded plastics and grit blasted metals.

Aluminium Preparation

Most aluminium has a natural oxide coating or an electrochemically produced anodic coating. This can be abraded and then solvent cleaned or as an alternative, chemically etched.

Application

Optimum results can be achieved by applying a small amount to one surface. Mate the surfaces to be bonded, then hold firmly using enough pressure to bring parts close together. Superset cyanoacrylate adhesive must be applied sparingly to give high cure speed coupled with high bond strength.

Caution

Contains cynaoacrylate ester. Bonds immediately in contact with skin tissue and is an eye irritant. Bonded skin should be peeled and not pulled apart. Flush well with water. Seek medical attention for eye or internal contact. Use with adequate ventilation and keep away from children.



IRRITANT

Note the information given in this data sheet is the result of controlled laboratory tests and experience. It is intended only as a guide to the user in selecting the appropriate grade of Truloc adhesive. Users must satisfy themselves by appropriate tests that the grades they propose to use are suitable for their specific application. Truloc Ltd. are not responsible for loss, claim or damages resulting from the use of their products.

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