

WEICON VA 180 HT



Cyanoacrylate adhesive for special requirements, high-temperature-resistant, fast-curing, medium viscosity, odourless

WEICON Contact VA 180 HT is a transparent cyanoacrylate adhesive for special requirements. It is high-temperature-resistant up to +180°C, fast-curing and odourless, and has medium viscosity.

The cyanoacrylate adhesive is suitable especially for the fixation of components, which are exposed to strong temperature fluctuations, for example when close to a running engine.

WEICON Contact VA 180 HT can be used in various industrial applications, such as in lamp and lightning construction, in the production of kitchen and electronic devices, or in areas where high temperatures can occur and a quick solution is needed.

Technical Data

Ester type	ethyl
Composition	colourless, clear liquid
Features	odourless, temperature-resistant
Viscosity at +20°C (+68°F) according to Brookfield	300 - 400 mPa·s
Max. Gap Bridging	0,15 mm
Initial strength on aluminium	20 - 50 sec.
Initial strength on NBR-Rubber	5 - 20 sec.
Initial strength on hard PVC	40 - 100 sec.
Final strength approx. after	24 h
Shear strength according to DIN EN 1465 at:	
Steel sand blasted	14 N/mm ²
Sand-blasted Aluminium	18 N/mm ²
Rigid PVC	13 N/mm ²
ABS	12 N/mm ²
PC	9 N/mm ²
NBR	> 8 N/mm ²

Note

The specifications and recommendations given in this technical data sheet must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do guarantee the continuously high quality of our products. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.

Temperature resistance	-55 to +180 (-67 °F to +356 °F) / softening temperature +150 (302 °F) °C
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Surface pre-treatment

For a flawless adhesive bond, surfaces must be clean and dry (clean and degrease with WEICON Surface Cleaner). Smooth surfaces should be roughened mechanically. To improve the adhesion of plastics difficult to bond (e.g. PE, PP, POM, PTFE), thermoplastic elastomers (TPE) and silicones, WEICON CA-Primer can be applied to the bonding surface.

Processing

- Apply WEICON Contact Cyanoacrylate Adhesive to just one of the bonding surfaces.
- The layer thickness when applying the adhesive should be between min. 0.05 and max. 0.2 mm (depending on the type), as otherwise complete curing cannot be guaranteed.
- For large-surface bondings, WEICON Contact Cyanoacrylate Adhesives should be applied in dots in order to prevent inner tensions.
- WEICON Contact Cyanoacrylate Adhesives are very economical. One drop covers approx. 3 to 5 cm² bonding surface.
- The components should be bonded at a relative air humidity level between 40% and 80%. Below 40 %, the curing process is slowed down significantly or even prevented altogether. At an air humidity level above 80 % or with strongly basic substrates (e.g. glasses), the risk of shock-curing occurs. In these cases, certain materials show a drop in strength by 10 % to 15 % due to tensions in the adhesive layer.
- Alkaline surfaces (pH value >7) accelerate the curing process, acidic surfaces (pH value <7) slow down the curing process and can prevent polymerisation altogether in extreme cases.

Storage

WEICON Contact Cyanoacrylate Adhesives have a shelf life of at least 9 months, when stored in unopened condition at room temperature (+18 °C to +25 °C) in a dry and dark space. Temperatures of approx. +5 °C will increase the shelf life to 12 months.

Safety and health

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Available sizes:

12750060	WEICON VA 180 HT 60 g
12750030	WEICON VA 180 HT 30 g

Accessories:

12500150	CA-Activator Spray, 150 ml
12505150	CA-Activator Spray AC, 150 ml
12955170	Dosing Tips, Size 0
12955175	Dosing Tips, Typ A Size 0,5

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