

# Cyberbond CB

#### **CB 2250**

### **Technical Datasheet**

xtraflex Series

- fast bonding
- high viscosity
- partly flexible
- yellowish

The xtraflex Series stands for partly flexibe Cyanoacrylates, also known as rubber toughened. They allow dynamic and temperature loaded bonds and guarantee certain shock absorbence properties. These grades are also excellent for combination bondings like metal to rubber or metal to plastic.

Storage Conditions: +5°C - +20°C / 41°F - 68°F (recommended: use of refridgerator). Before opening the bottle the adhesive should be reconditioned to room temperature (at minimum higher than actual ambient dew point).

Working range: best results can be achieved when adhesive and substrates have been reconditioned above dew point and relative humidity is 30 - 80%.

Different Application Parameters: At higher humidity the substrates should be heated beyond the ambient temperature by 10 K (for large components in the local area of adhesive surface), unless there are no possibilities to create the recommended conditions.

CB 2250 is an exclusive product and can only be purchased by Continental Trading GmbH.

### Physical properties - monomer (uncured)

Base compound Ethyl-2-cyanoacrylate yellow, fluorescent **Appearance** Density at 20 °C in g/cm3 1,06 85 Flashpoint Shelf life,20 °C,unopend, 12

in months

### Viscosity

cone-plate,@20°C [CBE

PA-035]

@ 160 rpm 1500-3500 cps

### **Physical properties - Polymer**

**Appearance** yellowish Service temp range -55 - 140 °C humidity range < 98% +20°C relative humidity at

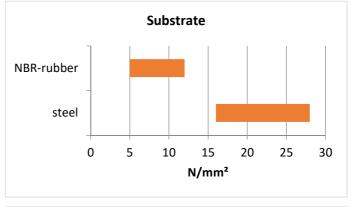
### Setting time [seconds]

metal (steel) 30 - 90 **EPDM** 8 - 17 plastic (ABS) 7 - 13

### strength of cured adhesive

Substrate	N/mm²		
NBR-rubber ▲	5	to	12
steel	16	to	28

material failure



### **Specification**

RoHS conform.

For details and certificates see www.Cyberbond.eu

IATF 16949, ISO 13485, ISO 9001 & ISO 14001 Cyberbond CB



### Cyberbond CB

**CB 2250** 

### **Technical Datasheet**

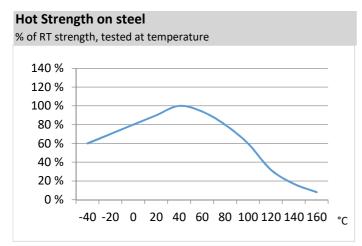
80 %

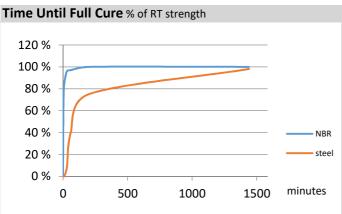
60 %

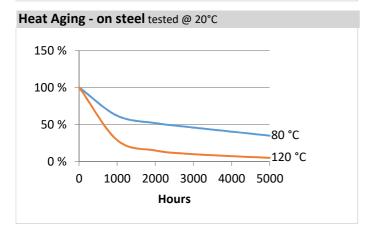
40 %

20 % 0 %

0







### **Durability after Alternating Climate Storage** Conditions; tested with stainless steel above freeze point 80% rel. humidity temperature range: -20 - 80 °C 60 Cycle count [h] Holding time at start temperature 0 Heating up phase 3 Keeping warm phase 3 3 Cooling down phase Holding time at final temperature 3 140 % 120 % 100 %

240

720

IATF 16949, ISO 13485, ISO 9001 & ISO 14001 Cyberbond CB



## Cyberbond CB

**CB 2250** 

### **Technical Datasheet**

Solvent resistance		
Solvent	Example	Resistance
alcohol	ethanol, methanol	+++
ester (aliphatic)	ethyl acetate (acetic	
(1)	acid ethyl ester)	
ketones	acetone, benzophenone	
aliphatic hydrocarbons (alkanes)	petrol, heptane, hexane	++
,		
aromatic hydrocarbons	benzene, toluene,	++
	xylene	
halogenated	methylene chloride,	
hydrocarbons	chloroform, chlorobenzene	
weak acqueous acids	diluted nitric-, muriatic-, sulfuric-, phosphoric	+++
	acid	
concentrated acid	nitric acid, muriatic acid,	
	sulfuric acid, phosphoric	
	acid	
weak acqueous bases	diluted sodium	+++
	hydroxide -, caustic	
	potash solution	
concentrated bases	sodium hydroxide -,	
	caustic potash solution	
water		++
Liquidow(TM) CaCl2		
Solution		
Tech: RimEase(TM) 720		
Tire Life (R)		
Tire tech mounting fluid		
Tech: Tech Tire		
Mounting Paste		
AGS: RU-Glyde		
Freylube: Freylube		
Prema		
Patch Rubber Co.: Slip		
Tac		
Myers Tire Supply: Patch		
Tire Lube Concentrate		
Gaither Tool Co : Supar		
Gaither Tool Co.: Super Slick-Em		
A-1 Tire: Cody`s Tire		
Snot		
+++ verv good ++ good v	verv bad	

Solvent resistance		
Solvent	Example	Resistance
Rema Tip Top: Hunter		
Tire Mounting Paste		

+++ very good ++ good --- very bad

### **General Information CA**

Cyanoacrylates are fast setting, one component and solvent free adhesives. They are based on esters of cyanoacetic acid. To get to a finished product, mainly thickeners, respectively film forming agents (polymer methacrylics and acrylics) and stabilisers are added. The polymerization is initiated by present humidity. Best results are given between 40 to 70 % relative humidity.

Cyberbond standard grades are as follows:

- Powerdrop series (stabilised ethyl ester)
- Elastomer and plastic series (ethyl ester)
- Neomer Series (surface insensitive ethyl ester)
- xtraflex series (rubber toughened ethyl ester)
- metal series (ethyl ester)
- low odour series (alkoxy ester)
- medical series (butyl- and octyl ester)

### **Measurement of Viscosities**

Viscosity describes the flow-ability of a liquid. Cyberbond measures the viscosity of the products by means of the cone/plate method: the liquid is applied on a panel and a defined cone presses the liquid together and rotates. You differentiate between a Newtonian and a thixotropic liquid. In terms of a Newtonian liquid you will get a relative constant viscosity graph in dependence of the rotary speed of the cone. In terms of thixotropic liquids the product becomes more liquid (down to its base viscosity) the faster the cone rotates.

The viscosity is measured in mPa\*s (milli Pascal x second) [SI system] or in cP (centipoise) [CGS-system]; 1 mPa\*s = 1 cP. In order to allow products comparison all adhesives are measured at the same rotation speeds.

- Newtonian liquids at 160 rpm
- Thixotropic liquids at 0,5 rpm and at 160 rpm Temperature always is at 20 °C / 68 °F, if not mentioned to be different.

### **Clean Surface**

The surface condition of the mating parts has an enormous influence on the success of a bond. To achieve good bonding success the mating parts should be clean.

+++ verv good ++ good --- verv bad IATF 16949, ISO 13485, ISO 9001 & ISO 14001

08.10.2020 / CB 2250





**CB 2250** 

### **Technical Datasheet**

### **Additional Programme**

In order to support certain applications Cyberbond offers perfectly balanced additional products such as:

- Primer and Conditioner Pen: in order to change surface tension; enables to bond unpolare materials (Standard: CB 9056)
- D-Bonder: in order to dissolve adhesives (Standard: CB 9060, CB 9065, CB 9066)
- Activator: in order to accelerate the curing of adhesives (Standard: CB 9090, CB 9096, Quickstep 9040, Quickstep 9080)
- Cleaner: in order to clean surfaces professionally (Standard: CB 9999)

Cyberbond offers by means of the LINOP Equipment range suitable dosing and LED based curing devices. We also refer to suitable dosing tips which help an economical use of the adhesives (also if used manually).

### **Potential Danger of Cyanoacrylates**

You should care for the following:

- use in well ventilated areas only
- install suitable exhaust systems in the workshop
- apply material economically and use a dosing system where appropriate
- allow a consistent relative humidity of 50 to 65 %; with regards to lower figures the polymerization will be delayed and monomer adhesive fume will appear
- if necessary: wear suitable, non-sucking gloves (e.g. no cotton)
- keep adhesive out of reach of children

The data mentioned in this TDS, particularly the recommendations and use of products are based on our recent knowledge and experience. Due to the fact of having so many different materials involved and conditions of applications which are out of our influence, we strongly recommend to do sufficient tests in order to guarantee that Cyberbond products are suitable for the intended process and applications. Except for wilful acts any liability based on such recommendations or any verbal advice is hereby expressly excluded.

### Storage

Store products in a cold and dark place. Before use allow to reach ambient temperature.

### For safe handling consult Material Saftey Data Sheet (MSDS).

Cyberbond Europe GmbH A H.B. Fuller Company Werner-von-Siemens-Straße 2 31515 Wunstorf Germany

Tel.: +49 / 50 31 / 95 66 - 0 www.cyberbond.de



Cyberbond CB

IATF 16949, ISO 13485, ISO 9001 & ISO 14001 Cyberbond CB

08.10.2020 / CB 2250