

CT UltraViLiBo CT UltraViLiBo M



CT UltraViLiBo V4.1

20 cold embeddings within 60 seconds

The CT UltraViLiBo with the latest LED technology and an appropriate wavelength (360 - 405nm) enables the embedded materialographic samples to be ready within 60 seconds.

Depending on the size of the embedding mould, the CT UltraViLiBo holds up to 20 embedding moulds.



Fill in the embedding moulds with CEM UltraLight



Place the filled embedding moulds in the exposure drawer.
Expose for about 60 seconds.



After the embedding process you can take the samples and carry out further materialographic preparation steps.

A lot of good things on board

- easy-care due to solid, powder-coated aluminum housing
- gentle, low-noise closing of the drawer thanks to soft-close technique
- suitable for transparent embedding moulds: from 25 mm up to 60 mm
NEW: max. 60 mm specimen height
- UV-LED-Lifetime: up to 2,8 Million embeddings, wavelength 360-405 nm
- temperature of polymerization is appx. 90°C (70 °C), if initial temperature is ca. 22°C (14°C)
- hardness after curing process is about from 84 to 86 Shore D
- low shrinkage
- further increase in hardness and minimization of shrinkage



Devices

CT UltraViLiBo
NEW: *Follow up model* - bigger drawer (from spring 2022)

CT-UVBox005: V 4.1 Dim.: 34 x 36 x 24 cm price on request

CT UltraViLiBo M
CT-UVBox002: V 1.3 Dim.: Ø 13 cm, H 15 cm price on request

Accessories and spare parts

CT-UVBox-Komp001: Tube LED-UVA Universal

CT-UVBox-Komp002n: Floatglass 3mm, 184mm x 184mm

CT-UVBox-Komp003: power cord, black, 2m

CT-UVBox-Komp089: safety glasses (UV-400 / blue light)

Services

On request we will install the device for you and instruct you accordingly. We optionally offer an exchange guarantee, even within 24 hours. Please contact us if you are interested.



ES France - Département Bio-tests & Industries
127 rue de Buzenval BP 26 - 92380 Garches



Tél. 01 47 95 99 90
Fax. 01 47 01 16 22



e-mail : bio@es-france.com
Site Web : www.es-france.com

The UltraViLiBo's: Cold embedding with intelligence

efficient

You save working time energy
and material.

sustainable

Less waste by saving
on consumables.

innovative

No smell.
Less power consumption thanks
to UV LED technology.

high-quality

Made in Germany: in cooperation
with regional companies.



Cloeren Technology
good to know

The "little" Brother with only
13 cm diameter and
15 cm in height.



Also available as a set in a case. Inside: CT
UltraViLiBo M with 3 embedding moulds.



CT UltraViLiBo M V1.3 Fit for small needs

As a further development of its „big brother“, we have designed
the CT UltraViLiBo M so that it can also be used in small
laboratories.

Easy to use and ideal for embedding of individual samples or with
little testing effort.

A valuable addition to the daily materialographic sample
preparation.

Compact design

- High level of security for the user
- Inductive energy transfer
- Easy-care, robust, blue anodized aluminum housing
- Protection of utility models DE 20 2019 103 168 U1 2019.07.25

Consumables

CT UltraViLiBo and CT UltraViLiBo M

1 CT-UV002: CEM UltraLight, 1 liter, UV light-curing single-
component embedding agent of highest transparency

2 UV-PUL002: UV filler made of finely granulated thermo
plastic, 1 kg, to improve the edge adhesion and the
increase in hardness (normal processing also possible
without a trigger system)

3 UV-PUL003: UV filler made of glass plates, 1 kg, to
improve the edge adhesion and the increase in hardness

4 Clean013: CT UltralightClean, 1 liter, for cleaning the
surface of the embedded samples with CEM UltraLight

5 Glass embedding moulds Ø 30 up to 50 mm up from

6 CT EasyPlan Glass bottom Ø 30 up to 50 mm up from

Fixing paste UV- and blue-light curing

CT CupClean cleaning tool



ES France - Département Bio-tests & Industries
127 rue de Buzenval BP 26 - 92380 Garches



Tél. 01 47 95 99 90
Fax. 01 47 01 16 22



e-mail : bio@es-france.com
Site Web : www.es-france.com

StarterSet



Consisting of:

- 1x 1 liter **CEM UltraLight** UV-light-curing embedding material of highest transparency
- 1x 1 piece **glass embedding mould** Ø 40 mm (on request also Ø 30 mm / Ø 50 mm)
- 1x 1 piece **CT EasyPlan glass bottom** for an absolutely flat specimen surface in the glass embedding mould (Ø corresponding).
- 1x 1 piece **CT CupClean Cleansing tool** cured CEM UltraLight residues can be removed easily, or our glass bottom CT EasyPlan can be stripped away, too
- 2x 3 pieces **LDPE embedding moulds** Ø 40 mm (on request also Ø 30 mm / Ø 50 mm)
- 1x 1 liter **CT UltraLightClean¹** for cleaning the surface of the embedded samples with CEM UltraLight

Services²

Installation and instruction

We **personally deliver** your device, **set it up** and **instruct** you in detail on the proper operation of the device.

Exchange within 48h workdays

If your device fails within the warranty, in addition to a **free repair** including pickup and return shipping, we of course also offer **two other options** to save you from a breakdown:

We will **provide** you **with a loaner** within 48 hours!

- Service fee, **one-time** in case of need 150,00 EUR
- Additional warranty, valid **one year** from purchase 180,00 EUR

Free³ test device

Before buying a CT UltraVILiBo unit, you first want to see whether it is the right decision to **save consumables, costs** and, above all, **time**? No problem at all. We will provide you with a device free of charge³. Make an appointment today!

¹ plus LQ surcharge according to ADR: 4,00 EUR (per parcel max. 30 kg within Germany)

² only within Germany

The 1x1 of good embedding with CEM UltraLight

Important:

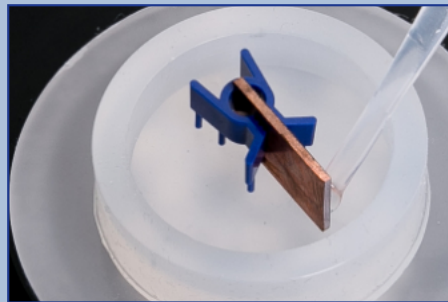
1. for a clean, grease-free surface: **cleaning** the specimen with ethanol (preferably in an ultrasonic basin).
2. thorough **drying of** the specimen using a hair dryer. For porous specimens, allow for complete through-drying; this will result in fewer avoidable air bubbles.
3. A central **positioning**, if necessary place some CEM UltraLight beforehand, slowly insert and align the specimen: sharp edges of the specimen as far away from the edge as possible.
4. there must be **light access** everywhere where CEM UltraLight is to cure: no light access > no chain reaction > no curing.
5. CEM UltraLight adheres by **positive locking**, it does not stick; the more bearing surface, the better the result.
6. If necessary, **aspirate** visible **air bubbles** with a pipette before curing.
7. optional: **evacuation** with max. -0.8 bar helps to bring air out and embedding medium into the cavities of the specimen.

DIY embedding aid



step 1

Place the specimen on a silicone base with an existing embedding aid.



step 2

Use a pipette, apply a drop of CEM UltraLight to the sample base on the specimen.



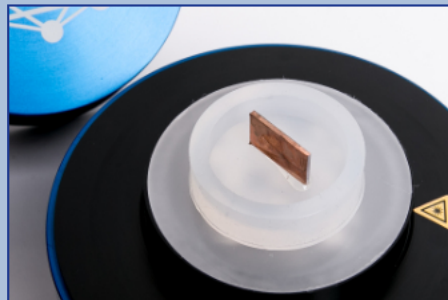
step 3

The „base“ no applied should enclose the specimen on one side, but not touch the embedding aid.



step 4

Cure this sample for a few seconds.



step 5

The DIY embedding aid is ready.

Use UV fillers correctly

There are 2 types of UV fillers:

UV-PUL002 - finely granulated thermoplastic resin
UV-PUL003 - glass plates

1. To **improve edge adhesion**, prepare a homogeneous mixture of 20 wt% UV filler and 80 wt% CEM UltraLight.
2. Fill **max. 5 mm** of the mixture into the sample form.
3. Now **cure** the specimen with this **mixture for 2 - 3 seconds**.
4. Then **IMMEDIATELY fill with CEM UltraLight** and allow to cure (60 - 120 seconds).



◀ SPECIMEN SHOULD PROTRUDE INTO

