

DIRECTIONS FOR USE



GKE Clean-Record® Cleaning Process Monitoring Indicators for ultrasonic cleaning baths

Product | Art.-No.

810-111, 810-112, 810-211, 810-212, 810-311, 810-312, 810-411, 810-412, 800-115, 800-116, 800-117

Application | Indicator selection

For routine monitoring in ultrasonic cleaning baths.

Cleaning processes must be adapted to the soiled instruments, are therefore very different and depend on many factors (cleaning agent, water quality, temperature, etc.).

A test run is recommended with all indicator versions. The indicator version which is suitable for routine monitoring can be washed off in the validated process and cannot be washed off when an intentionally disturbed process is applied for test purposes (e.g. no detergent, no ultrasound). The result is documented and used as a reference when assessing subsequent test results (see „Handling information“).

For process monitoring, an indicator is placed vertically or horizontally in the liquid and checks the intensity of the cleaning process in the liquid volume of the ultrasonic bath at least once a day. It is recommended to use a test time which is identical with the regular cleaning cycles.

Product Description

Ultrasonic Cleaning Process Monitoring Indicator (U-CPI): GKE offers four U-CPI identified by colours with different wash-off characteristics. Each indicator sheet contains 4 indicators (125 x 56 mm).

Stand holder: Holder made of stainless steel, available in three different heights (7, 15, 20 cm), each with two height-adjustable clamps for fixing the indicator in the liquid volume and a connection clip for connecting several holders (see illustration).

Performance Characteristics

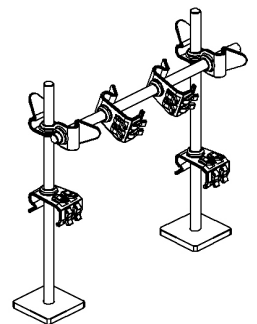
The 8 test soils described in the EN ISO 15883-5 standard are intended to simulate real soils, but are not suitable for everyday use because they have to be prepared manually and to be used immediately. GKE-U-CPI are specially designed for everyday use. They are produced in an automated process, always have the same wash-off characteristics and are used as a process monitoring indicator during everyday routine.

The indicator colour is non-toxic and is dissolved with most cleaning agents and flushed away with the washing fluid. The indicators can be used for documentation after use.

Handling Information

Ultrasonic baths have different cleaning efficacy within the tank. Therefore, it is recommended to test all positions with one indicator each to determine the worst cleaning conditions in the volume. At this point, the indicator should be placed horizontally and/or vertically in the holder.

1. Select the appropriate holder according to the tank size. The holders can be turned so that the indicator is aligned to the top and/or bottom.
2. Fill the bath with water and cleaning liquid according to the specification of the manufacturer.
3. Degas the liquid for 5 to 30 min, depending on the tank volume.
4. Equip the holder with one or two indicators horizontally and/or vertically. Contact with hand disinfectant or saline solution, e.g. sweat, could affect the wash-off characteristics of the indicator. The indicator should therefore be touched at the edge in the area not printed with indicator colour.
5. Do not place the holder directly on the bottom of the tank, but e.g. in a basket.
6. Start the ultrasonic bath and place the stand holder with indicator in the bath. The indicator should be completely submerged. Carry out the test for the defined test time (see „Application | Indicator selection“).
7. Remove the indicator, allow it to dry, compare the result with the reference and document. The indicator is self-adhesive and can be adhered for documentation.
8. Check the ultrasonic bath once a day with the selected indicator.
9. With the comparison, it is possible to see to what extent the washing result has deteriorated with prolonged use of the cleaning liquid. The test result can be used to determine at what point the liquid should be replaced if the daily check shows that the indicator washes off only after a long time or not at all.
10. For test reproducibility, it is necessary that the following test conditions (filling level in the tank (2/3), temperature, degassing time, positioning of the indicator, sonication time, concentration and type of detergent) always remain the same.



Storage and Disposal

1. For longer periods store indicators in the original package.
2. Store indicators at temperatures from 5 to 30°C with humidity from 5 to 80% RH.
3. Do not store indicators together with other chemicals or extremely high or low humidity. Both can influence the wash-off characteristics.
4. The indicators should not be used after expiry date. They may be disposed with normal waste.

For further technical details please contact your local representative or GKE application laboratory. We will assist you with any technical questions. For more information visit our website www.gke.eu.