

OK-Sonic™ Ultrasonic Bath Monitor

Technical Data Sheet

Introduction:

There is a number of factors that can compromise efficacy of medical instruments and labware cleaning in ultrasonic baths. Visual examination of instruments after processing may not reveal inefficient cleaning. The best way to verify performance of ultrasonic cleaners is to use Proper OK-Sonic Bath Monitor which are indicator strips that monitor integrated result of the cleaning process parameters, including strength of cavitation, exposure time and temperature.

Product description:

Each OK-Sonic Ultrasonic Bath Monitor consists of two blue protein mixture soil spots adhered on a plastic substrate (Fig.1). These indicator soils do not contain any natural blood and have no risk of contaminating the cleaning chamber and its content. At the same time, the stain mixture contains organic compounds normally present on medical instruments and devices after use with patients.

When placed in an ultrasonic cleaner, the blue soil is slowly removed by cavitation in the cleaning bath. Presence of detergent and pre-soaking phase expedite this process. The soil spots wash off completely from the substrate when exposed to sufficient cleaning cycle parameters. The purpose of the two indicator spots is to represent open surfaces and difficult-to-clean parts of instruments. Both indicators soil spots have identical composition, and are designed to be used with the monitor holder, which has one open and one covered side. The holder acts as a process challenge device, which covers indicator stain on one side of monitor strip while leaving the other stain spot fully exposed. The covered stain simulates conditions that are challenging for cleaning. The open stain area simulates full exposure to cleaning cycle parameters inside ultrasonic cleaner basket where the OK-Sonic monitor is placed.



FIGURE 1. OK-SONIC MONITOR AND THE HOLDER

Performance:

The OK-Sonic Ultrasonic bath monitor is designed to monitor typical cleaning cycles of ultrasonic baths used in healthcare and medical industry. It has been validated against the reference foil test. To remove soil spots, cavitation level and exposure time should be met. OK-Sonic indicator soil strength is adjusted to monitor typical cycles with detergents, at temperature recommended for those detergents and with pre-soaking phase. The indicator soil spots are designed to withstand water exposure and are not removed by soaking in water if cavitation is not present. Very high temperature 50°C-60°C may reduce affect removal of the soil.

Instructions for use:

The OK-Sonic monitor should be used with the Propper Monitor Strip holder (26915300). This ensures that all results are comparable and the soil spot cover simulates difficult to clean areas of medical instruments. The indicators may be placed horizontally or hung vertically on the sides of a mesh basket inside the ultrasonic cleaner. Because an ultrasonic cleaner may have weak and strong areas of cavitation; it is recommended that a benchmark cycle be run before normal use. To do this, run a cleaning cycle utilizing multiple indicators in different sections of the bath, making sure that the machine is otherwise empty of instruments. During normal cycles, the number of indicators to be used per cycle depends on the size of the bath. After completion of successful cycles, cleanliness of instruments can be verified with the Propper Protein detection test, reorder #26923300.

Proper use of holder:

The OK-Sonic indicator should be slid into the holder from the top down, starting from the covered part of the holder as pictured on Fig.2 below. Make sure that the strip is fully inserted and held firmly in place by the metal clamp. Do not try to open, or unbent the holder cover – it will damage the holder, and it may not hold strips in place firmly. Once the indicators are placed in the cleaner, the cleaning cycle may be started. At its completion remove the indicator strips from the holder and inspect for the presence of blue test soil. The blue test soil is scratch and rub resistant when dry, however it is important to avoid contact with the soil when wet. When removing an indicator strip, never pull it from the side as this may cause test soil to rub off against the metal holder.

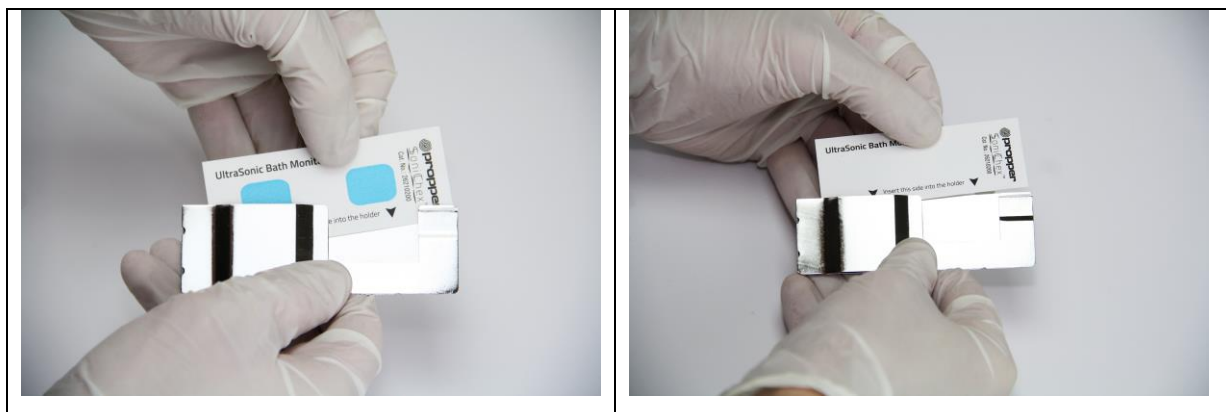


FIGURE 2. AT LEFT, CORRECT INSERTION OF OK-SONIC INTO HOLDER, AT RIGHT, CORRECT REMOVAL OF OK-SONIC AFTER CYCLE COMPLETION

Result interpretation:

OK-Sonic monitors are printed with two blue reactive soil spots. When the indicators are exposed to an ultrasonic cleaning cycle the blue ink is slowly removed by energy of cavitation and action of detergent. If, at the end of the cycle, there is any remaining blue ink, the result is a fail (Fig.3).



FIGURE 3. UNPROCESSED, FAIL, AND PASS RESULTS OF OK-SONIC.

Shelf life and storage conditions:

-Shelf life: 2 years;

-Storage conditions before use: RH: 30-70%, protect from direct light and excessive humidity. Temperature up to 30°C (86°F);

-Storage conditions after use for record keeping: RH: 35-70%, protect from direct light and excessive humidity. Temperature up to 35°C (95°F);

- Record keeping: OK-Sonic indicator strips have stable color change and can be stored for record keeping after processing for years. Exposure to light may cause some color degradation.

Ordering Information:

- Cat. No. 2621020: 1 bag of 100 OK-Sonic™ Ultrasonic Monitor Strips
- Cat No.: 26965300 – Box of 6 monitor strip holders for OK-Sonic™ Monitor Strips
- Cat No.: 26915300 – Box of 1 monitor strip holder for OK-Sonic™ Monitor Strips