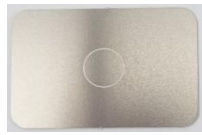


Case Soil® Wash Indicator

Interpreting test results and failure troubleshooting guide for Ultrasonic Cleaner



PASS A clean coupon shows no visible residue and indicates a pass.

FAIL

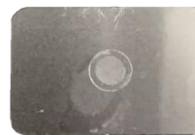
Red, pink, white, or filmy residue indicates a failure. For any failure, investigate the cause and re-test under the same conditions.



Red = Load was not processed, machine non-functional (*review section 3 below*)



Pink = No detergent dispensed, low temperature, improper placement of indicator, insufficient cavitation, damaged tubing or pump (*review sections 1, 2, and 3 below*)



White = Clogged water filter, overloaded cleaner, improper placement of indicator, cold water temperature, insufficient cavitation, inadequate rinse, hard water deposits (*review sections 1, 3, and 4 below*)



Film = Check machine parameters for contact time and temperature, insufficient cavitation, equipment maintenance, improper loading, water quality, detergent residue (*review sections 3 and 4 below*)

1. Check Case Soil Test Placement

- Verify **correct test placement for routine use**:
 - Test coupon is placed in Case Soil Holder with lid closed
 - in center of instrument basket
- Use **correct test placement for equipment failure**:
 - Place test coupon on all four sides of ultrasonic to determine if transducers are properly functioning or need to be repaired or replaced at that location

2. Check Cleaning Solution

- Check the **level of the cleaning solution** in the bottle to ensure detergent is being dispensed
- Verify that cleaning solution has not reached its **expiration date**
- Check that cleaning solution is **not stored near a heat source**
- Ensure that chemicals in use are **appropriate for use** for reprocessing surgical devices
- Verify that a rinse follows the detergent step

3. Check Equipment

- Check cycle parameters for:
 - correct **cycle time**
 - correct **cycle temperature**
 - ensure **proper dosage or dilution rate** is set for the cleaning solution
 - thorough **rinsing** after each wash step
- Check **tubing, pump, and reservoir** for damage, restrictions, or leaks
- Verify **ultrasonic cleaning action (cavitation)** is evenly distributed throughout the bath; failed transducers may cause dead spots.

4. Check Water Quality

- Examine the condition of the **water filter**, clean if necessary
- Confirm **wash water** has been changed at appropriate intervals
- Test for water quality, including total dissolved solids (TDS), hardness, alkalinity, chlorine
- Contact management or facility maintenance for **water quality** issues