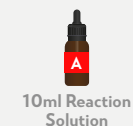


Step-by-step guide for SEEF Cr(VI) Swab Test for Insulation Turbine and CHP Engines – ST01

Please read this manual carefully before performing the test.
It contains detailed information to properly perform this test.

Contents



Needed supplies



Step 1 Use personal protective equipment

For your own protection, wearing approved safety goggles and nitrile gloves is mandatory. In certain circumstances, a FFP3 respirator mask is recommended.



Step 2 Preparing the Swab

Apply enough reaction solution to the cotton tip of the test swab to ensure it is thoroughly wet.

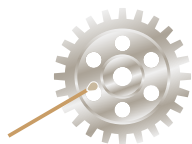


The swab should be sufficiently moistened with liquid to both solidify Cr(VI) and dissolve it for detection.



Step 3 Testing the surface

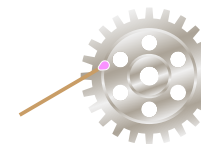
Within 1 minute of moistening the swab, rub it over the target surface (e.g., insulation or surface) in a consistent and firm motion.



Rubbing should take approximately 20 seconds.



Observe the swab for any color change during or immediately after the rubbing process.



Step 4 Interpreting the results

Positive result: If the swab turns pink to deep purple during or after rubbing the surface for approximately 20 seconds, Cr(VI) is present. The intensity of the color correlates with the concentration of Cr(VI).



No color change or doubtful result: If no color change occurs, this does not guarantee the absence of Cr(VI). For inconclusive cases, further testing is recommended.



Option 1: Use the SEEF Cr(VI) test kit (TK01), which incorporates our patented technology to eliminate false-negative results.

Option 2: Collect a wipe sample and send it to SEEF for advanced laboratory analysis.

Step 5 Positive control test

To test if the swabs are still working, use the provided positive control (zinc chromate-coated steel ring). Moisten a swab thoroughly, rub it on the ring for approximately 20 seconds, and confirm that the swab turns purple.

