

Unitor Cold Corrosion Test Kit

Kit Contents

500 mL of Reagent 1	Comparator
250 mL of Reagent 2	Vials (Test Tubes)
250 mL of Reagent 3	Colour Wheel
Bottle Dropper Caps	Vial Identification Pen
1 ml Syringes	



Notes



- Always wear gloves and safety goggles when testing.
- The dropper cap has a precision cut hole for accurate dispensing of reagents. Do not cut a larger hole.
- Before dispensing, fit a dropper cap to each reagent bottle to be used.
- To avoid cross-contamination do not use the same dropper cap for different reagents.
- This test relies on full colour vision for accurate interpretation of results.
- Always use fresh vials for each test.
- Remove vials from comparator immediately after test completion and dispose of contents properly.

Method (20 – 400 ppm)

1. Fill two new vials to the 5 ml line with **Reagent 1**.
2. Add 0.2 ml of used cylinder oil to each of the vials.
3. Fill one of the vials to the 10 ml line with **Reagent 2** and mark the vial for easy identification.
4. Fill the other vial to the 10 ml line with **Reagent 3**.
5. Cap both vials and then grip them, one in each hand, so that the caps cannot fall out.



6. Invert the vials and shake simultaneously for 30 seconds.

7. Turn the vials upright and leave them to stand for a further 4 minutes 30 seconds. If for any reason the mixture(s) fail to separate place the vial(s) under warm running water for 2 minutes.



8. At this stage the mixtures will have separated into two distinct layers.

9. Insert the colour wheel into the comparator.

10. Fit the unmarked vial into the left-hand comparator chamber.



11. Fit the marked vial into the right-hand comparator chamber.

12. Hold the comparator up to a source of natural light.

13. Rotate the wheel until the colours in the two windows match.



14. Read off the iron concentration from the mark on the comparator.

Method (40 – 800 ppm)

Follow the 20 – 400 ppm instructions above but add only 0.1 ml of used cylinder oil at step 2 (instead of 0.2 ml) and multiply the final result by 2.

For replacements contact:

Email: wss.info@wilhelmsen.com or go to <https://wssdirectory.wilhelmsen.com/#/customerservices> to contact your local customer service.

Part numbers:

735742: Cold Corrosion Test Kit
735744: Cold Corrosion Consumables Pack