

# Cold Corrosion Test Kit

## Kit Contents

1000 ml of Reagent 1	Comparator
500 ml of Reagent 2	Vials (Test Tubes)
500 ml of Reagent 3	Colour Wheel
Bottle Dropper Caps	Vial Identification Pen
1 ml Syringes	Safety Goggles and Gloves



## 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.



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

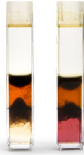
7. Turn the vials upright and leave them to stand for a further 4 minutes 30 seconds. If for any reason the mixture(s) fail to separate place the vial(s) under warm running water for 2 minutes.



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.

### Spares

FG-K19875-KW: Cold Corrosion Test Reagent Pack