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Iron HR with Liquid reagent

0.1 – 10 mg/l Fe^{2+/3+}



Ø 24 mm

This test is suitable for determining total soluble iron. The sample should be pre-filtered using a 0.45 µm membrane if total dissolved iron is required. Particulate or suspended iron will otherwise add to the result.

1. Fill a clean vial (24 mm Ø) with **10 ml of the water sample**, close tightly with the cap.
2. Place the vial in the sample chamber making sure that the marks \times are aligned.
3. Press **ZERO** key.
4. Remove the vial from the sample chamber.
5. Fill the vial with drops of the same size by holding the bottle vertically and squeeze slowly:
10 drops KS63 (Thioglycolate)
6. Close the vial tightly with the cap and swirl several times to mix the contents. Wait until purple coloration goes before continuing.
7. Fill the vial with drops of the same size by holding the bottle vertically and squeeze slowly:
10 drops KS160 (Total Hardness Buffer)
8. Close the vial tightly with the cap and swirl several times to mix the contents.
9. Place the vial in the sample chamber making sure that the marks \times are aligned.

prepare Zero
press ZERO

**Zero accepted
prepare Test
press TEST**

**Countdown
15:00**

10. Press **TEST** key.

Wait for a reaction **period of 15 minutes** (note 1).

After the reaction period is finished the measurement starts automatically.

The result is shown in the display in mg/l Iron.

Notes:

1. Complexed iron may be measured by increasing the development period until no further colour development is seen. Very strongly complexed iron may not be included in the measured iron. In this case the complexing agent must be destroyed by oxidation with acid/persulphate followed by neutralisation to pH 6–9. Follow the procedure on page 166.
2. For total iron (suspended and dissolved), boil sample with acid/persulphate. Neutralise back to pH 6–9 making back up to original volume with distilled or deionised water. Follow the procedure on page 166.

Reagent / Accessories	Form of reagent/Quantity	Order-No.
KS160 – Total Hardness Buffer	Liquid reagent / 65 ml	56L016065
KS63 – Thioglycolate Reagent	Liquid reagent / 65 ml	56L006365
KP962 (Ammonium Persulphate Powder)	Pulver	56P096240
KS144 (Calcium Hardness Puffer)	Liquid reagent / 65 ml	56L014465
Spoon	0,5 g Spoon	385340