

1. PERFORMANCE

- | | |
|--------------------------|---|
| 1) Sampling method | : Injection method
(Refer to Page 17) |
| 2) Measuring range | : 50-400 ppm |
| 3) Sampling time | : 250 seconds (1.0mℓ / 250 sec. By injection) |
| 4) Sample volume | : 1.0 mℓ |
| 5) Detectable limit | : 10 ppm |
| 6) Shelf life | : 1 year |
| 7) Operating temperature | : 5 ~ 30 °C |
| 8) Operating PH | : 2-3 |
| 9) Reading | : Concentration chart method |
| 10) Colour change | : Pale yellow → Brown |

2. RELATIVE STANDARD DEVIATION

RSD-low : 10 % RSD-mid. : 10 % RSD-high : 10 %

3. CHEMICAL REACTION

By reacting with Kperone, Chelate compound is produced.

4. CALIBRATION OF THE TUBE

IRON CHLORIDE (II) STANDARD SOLUTION METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substancxe	Interference	μg/ml	Coexistence
Copper ion		10	Higher readings are given.
Aluminium ion		10	∕
Cobalt ion		10	∕
Mercuric ion		100	∕

6. SAMPLING METHOD

(Injection method)

A glass syringe of 1mℓ capacity (an extra option) is required for measurement by this method. (Refer to FIG.1)



FIG. 1

- 1) Make the sample solution at pH 2-3 with Nitric acid before test.
- 2) Cut both ends of a fresh detector tube with a file.
- 3) Take 1mℓ sample solution into the syringe.
- 4) Connect the detector tube to the syringe by using the rubber connecting tube as shown in FIG.2.
- 5) Inject the sample solution into the detector tube at constant speed, so that the 1.0mℓ sample solution will go through the tube at exactly 250sec. If Iron ion is exised in the sample solution,a discolouration will be occurred in the detecting reagent layer from its inlet and the discoloured layer shall be given according to the concentration of Iron ion.

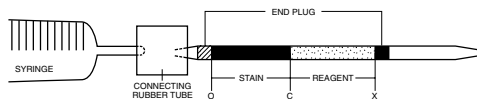


FIG. 2

