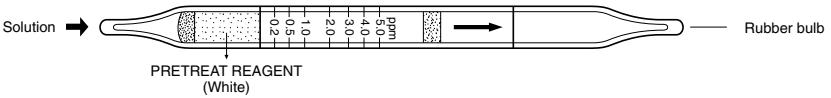
Tube No.
204S

CYANIDE ION



1. PERFORMANCE

1) Sampling method	: Direct sampling method (Refer to Page 17)
2) Measuring range	: 0.2-5 ppm
3) Sampling time	: 2 to 4 minutes
4) Sample volume	: over 5 mℓ
5) Detectable limit	: 0.05 ppm
6) Shelf life	: 2 years
7) Operating temperature	: 0 ~ 40℃
8) Operating PH	: 6-13
9) Reading	: Direct reading from the scale
10) Colour change	: White → Blue

2. RELATIVE STANDARD DEVIATION

RSD-low : 10% RSD-mid. : 5% RSD-high : 5%

3. CHEMICAL REACTION

By reacting with *o*-Toluidine and Cupric sulphate (II), complex salt is produced.

4. CALIBRATION OF THE TUBE

POTASSIUM CYANIDE STANDARD SOLUTION METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Carbonate ion		1,700	Higher readings are given.
Chloride ion		100	〃
Sulphate ion		2,700	Lower readings are given.
Thiocyanate ion	Similar stain is produced.	200	Higher readings are given.
Sulphide ion			〃
Dichromate ion			Pretreat reagent is discoloured and the accuracy of readings is not affected.
Permanganate ion			〃
Ferricyanate ion			〃
Residual chloride ion			〃

6. SAMPLING METHOD

1) Make the sample solution at PH 6-13 before test.
2) Cut both ends of a fresh detector tube with a file.
3) Squeeze the rubber bulb (an extra option), insert the tube end (B) into it as it is and immerse filled end (A) of the tube.
4) Put the thumb off the rubber bulb, and the sample solution shall rise up.
5) When the sample solution rises up to (C) of the tube, remove the tube from the rubber bulb and from thesample solution.
6) The concentration can be obtained directly from the reading value of scale printed on the tube.
7) At concentration of over 5 ppm, dilute the sample solution and multiply the readings obtained by the dilution ratio.