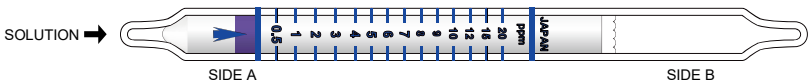
Tube No.
200SB

SULPHIDE ION



1. PERFORMANCE

1) Sampling method	: Immersion method
2) Measuring range	: 0.5-20 ppm
3) Sampling time	: 4 minutes
4) Sample volume	: Over 5 mL
5) Detectable limit	: 0.1 ppm
6) Shelf life	: 3 years
7) Operating temperature	: 5～40℃
8) Operating PH	: 7 - 14
9) Reading	: Direct reading from the scale
10) Colour change	: White → Pale brown

2. RELATIVE STANDARD DEVIATION

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

3. CHEMICAL REACTION

By reacting with Lead acetate, Lead sulphide is produced.

$S^{2-} + Pb(CH_3CO_2)_2 \rightarrow PbS$

4. CALIBRATION OF THE TUBE

SODIUM SULPHIDE STANDARD SOLUTION METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	ppm	Coexistence
Carbonate ion	The accuracy of readings is not affected.	1,000	Lower readings are given.
Chloride ion	〃	2,000	Higher readings are given.

6. SAMPLING METHOD

(Immersion method)

1) Make the sample solution at pH 7-14 before test.
2) Cut both ends of a fresh detector tube with an ampule cutter.
3) Immerse the end A of the tube into the sample solution. The solution will rise through the reagent layer by capillary action. If Sulphide ions are present, the reagent layer will begin to discolour from the inlet. The length of the discoloured layer indicates the concentration of Sulphide ions in the sample.