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(JEMCA/JSA)

**Testing methods for water quality by flow
analysis—Part 6: Fluoride**

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by Japan Environmental Measurement and Chemical Analysis (JEMCA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

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JIS K 0170 series consists of the following 9 parts under the general title

“Testing methods for water quality by flow analysis”:

Part 1: Ammonium nitrogen

Part 2: Nitrite nitrogen and nitrate nitrogen

Part 3: Total nitrogen

Part 4: Orthophosphate and total phosphorus

Part 5: Phenol index

Part 6: Fluoride

Part 7: Chromium (VI)

Part 8: Anionic surfactants

Part 9: Cyanide compounds

Testing methods for water quality by flow analysis—

Part 6: Fluoride

1 Scope

This Japanese Industrial Standard specifies the method for determination of fluoride contained in industrial water, industrial wastewater and the like using the flow analysis by the lanthanum-alizarine complexone absorption spectrophotometry after distillation of the sample to separate fluoride as fluoride ion. The method is also applicable to surface water, ground water, seepage water, etc.

It does does apply to samples with much suspended matter.

WARNING The reagents shall be handled with utmost attention, ensuring compliance with the relevant laws, ordinances, regulations and the like.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

- JIS K 0050 *General rules for chemical analysis*
- JIS K 0094 *Sampling methods for industrial water and industrial wastewater*
- JIS K 0101 *Testing methods for industrial water*
- JIS K 0102 *Testing methods for industrial wastewater*
- JIS K 0115 *General rules for molecular absorptiometric analysis*
- JIS K 0126 *General rules for flow analysis*
- JIS K 0211 *Technical terms for analytical chemistry (General part)*
- JIS K 0215 *Technical terms for analytical chemistry (Analytical instrument part)*
- JIS K 0557 *Water used for industrial water and wastewater analysis*
- JIS K 8005 *Reference materials for volumetric analysis*
- JIS K 8034 *Acetone (Reagent)*
- JIS K 8085 *Ammonia solution (Reagent)*
- JIS K 8102 *Ethanol (95) (Reagent)*
- JIS K 8180 *Hydrochloric acid (Reagent)*
- JIS K 8355 *Acetic acid (Reagent)*
- JIS K 8359 *Ammonium acetate (Reagent)*
- JIS K 8371 *Sodium acetate trihydrate (Reagent)*