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Methods for sampling of flue gas

ICS 13.040.40; 71.040.40

Descriptors : exhaust gases, gas analysis, flues, sampling methods, chimneys, ducts
(building services)

Reference number : JIS K 0095 : 1999 (E)

K 0095 : 1999

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS K 0095 : 1994** is replaced with **JIS K 0095 : 1999**.

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Methods for sampling of flue gas

Introduction This Japanese Industrial Standard has been prepared based on the first edition of **ISO 10396 Stationary source emissions—Sampling for the automated determination of gas concentrations** published in 1993. Some items and contents are added while part of the items and contents of the said International Standard is not adopted. Shown below are main differences thereof.

Items added; components of target gas, terms used, flue gas sampling hole, equipment (fitting metal, catching part, air-liquid separating part, safety trap, vacuum gauge, sample gas distributing tube and collecting tube) and sampling for chemical analysis (manual measurement).

Contents added; material, duct (dimensions and material), air cooling/dehumidifying of duct, water vapour removal procedure and maintenance/checking method.

Items/contents not adopted; normative references, collecting particle size of primary filtering material, material (heat resisting temperature of some materials), collecting particle size of secondary filtering material, operating temperature of suction pump, sample gas piping to analyzer, calibration method, advance check of concentration, flow speed and temperature of gas and apparatus for non-absorbing/collecting method.

The portions with sidelines and dotted underlines indicate the matters not provided in the original International Standard.

1 Scope This Standard specifies methods for absorbing and non-absorbing sampling of flue gas to analyze specific gaseous components exhausted into flues, chimneys, and ducts (hereafter referred to as “duct”).

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The normative references without the indication of the year of coming into effect (or the year of publication) apply limiting only to the most recent edition (including the amendments).

JIS B 2238 *General rules for steel pipe flanges*

JIS B 2239 *General rules for cast iron pipe flanges*

JIS G 3452 *Carbon steel pipes for ordinary piping*

JIS G 3459 *Stainless steel pipes*

JIS G 4303 *Stainless steel bars*

JIS K 0050 *General rules for chemical analysis*

JIS K 0211 *Technical terms for analytical chemistry (general part)*

JIS Z 8808 *Methods of measuring dust concentration in flue gas*

3 Definitions For the main terms used in this Standard, the definitions in **JIS K 0211** apply, and the rest of the terms are as follows: