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Heat balance of land boilers

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Boiler Association (JBA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (JIS B 8222 : 1993), which has been technically revised.

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Heat balance of land boilers

1 Scope

This Japanese Industrial Standard specifies a general method of heat balancing applicable to the tests of land boilers using solid, liquid and gaseous fuels.

This Standard covers commercial land boilers, and specifies the heat balance in general acceptance tests between the interested parties. In the case of simple boilers or in daily performance tests, this Standard is applicable by appropriately simplifying the specified items and using the given approximate formulae for calculation.

In the case of special boilers such as waste heat boilers and special fuels, the method agreed between the interested parties may apply.

2 Normative references

Part or all of the provisions of the following standards, 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 B 0126 *Glossary of terms for thermal power plants — Boilers and auxiliary equipment*
- JIS B 8201 *Stationary steel boilers — Construction*
- JIS B 8203 *Cast iron boilers — Construction*
- JIS K 0095 *Methods for sampling of flue gas*
- JIS K 2249 (series) *Crude petroleum and petroleum products — Determination of density*
- JIS K 2251 *Crude petroleum and petroleum products — Sampling*
- JIS K 2270 (series) *Crude petroleum and petroleum products — Determination of carbon residue*
- JIS K 2272 *Crude oil and petroleum products — Determination of ash and sulfated ash*
- JIS K 2275 (series) *Crude petroleum and petroleum products — Determination of water*
- JIS K 2279 *Crude petroleum and petroleum products — Determination and estimation of heat of combustion*
- JIS K 2301 *Fuel gases and natural gas — Methods for chemical analysis and testing*
- JIS K 2541 (series) *Crude oil and petroleum products — Determination of sulfur content*