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**Methods for chemical analysis of
aluminium dross for iron and steel
making**

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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 Aluminium Association (JAA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

Consequently, this Standard partially replaces **JIS G 2402**:2009 and **JIS G 2403**:2003.

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Methods for chemical analysis of aluminium dross for iron and steel making

1 Scope

This Japanese Industrial Standard specifies the determination methods for the metallic aluminium, nitrogen, chloride ion, total silicon, aluminium oxide and carbon, and moisture in aluminium dross for iron and steel making used as the flux at the time of making iron and steel.

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 G 2403 *Aluminium dross for iron and steel making—Sampling and sample preparation procedures*

JIS K 0050 *General rules for chemical analysis*

JIS K 0115 *General rules for molecular absorptiometric analysis*

JIS K 0116 *General rules for atomic emission spectrometry*

JIS K 0127 *General rules for ion chromatography*

JIS K 0970 *Piston pipettes*

JIS K 1101 *Oxygen*

JIS K 8005 *Reference materials for volumetric analysis*

JIS R 1306 *Porcelain combustion boats for chemical analysis*

JIS Z 2615 *General rules for determination of carbon in metallic materials*

3 General requirements

General requirements common to the chemical analysis shall be in accordance with **JIS K 0050** and the following apply.

- a) The sampling and the sample preparation shall be in accordance with **JIS G 2403**.
- b) Water to be used shall be A2 or A3 in grade and quality specified in Annex D of **JIS K 0050**.
- c) When the corresponding **JIS** exists, reagents and gases of the highest grade or those appropriate for the purpose shall be used. When the corresponding **JIS** does not exist, those do not interfere with analysis in quality shall be used.
- d) General requirements common to ICP atomic emission spectrometry shall be in accordance with **JIS K 0116**.