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**Iron ores — Determination of
low-temperature reduction-disintegration**

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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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Contents

| | Page |
|--|------|
| Introduction | 1 |
| 1 Scope | 1 |
| 2 Normative references | 1 |
| 3 Terms and definitions | 2 |
| 4 Principle | 2 |
| 5 Sampling, and preparation of test sample and test portions | 2 |
| 5.1 Sampling and test sample preparation | 2 |
| 5.2 Preparation of test portions | 3 |
| 6 Apparatus | 3 |
| 7 Test conditions | 4 |
| 7.1 General | 4 |
| 7.2 Reducing gas | 4 |
| 7.3 Heating gas and cooling gas | 5 |
| 7.4 Temperature of the test portion | 5 |
| 8 Procedure | 5 |
| 8.1 Number of determinations for the test | 5 |
| 8.2 Reduction | 5 |
| 8.3 Tumbling | 6 |
| 8.4 Sieving | 6 |
| 9 Expression of results | 6 |
| 9.1 Calculation of the reduction-disintegration index | 6 |
| 9.2 Repeatability and acceptance of test results | 6 |
| 10 Test report | 7 |
| 11 Verification | 7 |
| Annex A (normative) Flowsheet of the procedure for the acceptance of test results | 12 |
| Annex JA (informative) Comparison table between JIS and corresponding International Standard | 13 |

Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry based on the provision of Article 14, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act in response to a proposal for revision of Japanese Industrial Standard with a draft being attached, submitted by The Japan Iron and Steel Federation (JISF), an accredited standards development organization. This edition replaces the previous edition (**JIS M 8720: 2017**), which has been technically revised.

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Iron ores — Determination of low-temperature reduction-disintegration

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 4696-2: 2015**, Edition 3, with some modifications of the technical contents.

The dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies a method to provide a relative measure for evaluating the degree of disintegration of iron ores when reduced in a fixed bed at the temperature of 550 °C and then tumbled in a tumble drum at room temperature, under conditions resembling those prevailing in the low-temperature reduction zone of a blast furnace.

This method is applicable to natural iron ores (hereafter referred to as lump ores) and agglomerates [hot-bonded pellets (hereafter referred to as pellets) and sinters].

NOTE The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 4696-2: 2015 *Iron ores for blast furnace feedstocks — Determination of low-temperature reduction-disintegration indices by static method — Part 2: Reduction with CO and N₂* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

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 M 8700 *Iron ore and direct reduced iron — Vocabulary*

NOTE Normative reference in the corresponding International Standard: ISO 11323 *Iron ore and direct reduced iron — Vocabulary*

JIS M 8702 *Iron ores — Sampling and sample preparation procedures*

NOTE Normative reference in the corresponding International Standard: ISO 3082 *Iron ores — Sampling and sample preparation procedures*

JIS M 8706 *Iron ores and direct reduced iron — Determination of size distribution by sieving*