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Metallic powders — Determination of
particle size by dry sieving

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In the event of any doubts arising as to the contents,
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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 Powder Metallurgy Association (JPMA)/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 Z 2510** : 2004), which has been technically revised.

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Metallic powders — Determination of particle size by dry sieving

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 4497 : 2020**, Edition 2, with some modifications of the technical contents in order to reflect the actual situation in the Japanese market.

Contents of Clause **9** of the corresponding International Standard are given in Annex JA. The dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JB.

1 Scope

This Standard specifies a method of determining the particle size distribution of metallic powders by dry sieving into size fractions.

The method is applicable to dry, unlubricated metallic powders, but not applicable to powders in which the morphology differs markedly from being equiaxial, for example flake-type powders. The method is not applicable to metallic powders having a particle size wholly or mostly 45 µm or under.

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

ISO 4497 : 2020 *Metallic powders — Determination of particle size by dry sieving* (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 Z 2500 *Powder metallurgy — Vocabulary*

JIS Z 8401 *Rounding of numbers*

JIS Z 8402-2 *Accuracy (trueness and precision) of measurement methods and results — Part 2 : Basic method for the determination of repeatability and reproducibility of a standard measurement method*

JIS Z 8801-1 *Test sieves — Part 1 : Test sieves of metal wire cloth*

NOTE Normative reference in the corresponding International Standard : ISO