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(JPMA)

**Metallic powders—Determination of
particle size by dry sieving**

ICS 77.160

Reference number : JIS Z 2510 : 2004 (E)

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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 of establishing a Japanese Industrial Standard from Japan Powder Metallurgy Association (JPMA) with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

This Standard has been made based on **ISO 4497 : 1983 *Metallic powders—Determination of particle size by dry sieving*** for the purposes of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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Metals

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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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Metallic powders—Determination of particle size by dry sieving

Introduction This Japanese Industrial Standard has been prepared based on the first edition of **ISO 4497** *Metallic powders—Determination of particle size by dry sieving* published in 1983 with modifying some technical contents.

Portions underlined with dots are the matters modified from the original International Standard. The list of modification with its explanation is given in annex (informative).

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 under 45 μm .

NOTE : The International Standard corresponding to this Standard is as follows.

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**.

ISO 4497 : 1983 *Metallic powders—Determination of particle size by dry sieving* (**MOD**)

NOTE : If powders in which the morphology differs markedly from being equiaxial are measured, the particle size distribution of these powders cannot be correctly expressed and, therefore, the result is taken as an informative value. However, in the case of metallic powders total or almost all of which are of the particle size not larger than 45 μm , this Standard may be applicable only to the case of measuring the rate of the powders exceeding 45 μm and included in these powders.

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

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

NOTE : **ISO 3310-1** *Test sieves—Technical requirements and testing—Part 1 : Test sieves of metal wire cloth* is equivalent to the said standard.

JIS Z 8815 *Test sieving—General requirements*

NOTE : **ISO 2591-1** *Test sieving—Part 1 : Methods using test sieves of woven wire cloth and perforated metal plate* is equivalent to the said standard.