

Translated English of Chinese Standard: GB/T1480-2012

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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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GB/T 1480-2012 / ISO 4497:1983

Replacing GB/T 1480-1995

Metallic powders – Determination of particle size by dry sieving (ISO 4497:1983, IDT)

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Table of Contents

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Principle.....	4
4 Apparatus.....	4
5 Preparation of test portion	5
6 Procedure.....	5
7 Expression of results	6
8 Test report	7

Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GB/T 1480-1995 *Determination of particle size for metallic powders - Dry sieving*.

Compared with GB/T 1480-1995, the main changes are as follow:

- added requirements for sieve calibration;
- added requirements for mechanical sieving machine;
- increased balance weighing accuracy from ± 0.1 g to ± 0.05 g;
- deleted Annex A;
- modified some clauses of GB/T 1480-1995.

This Standard is identical with ISO 4497:1983 *Metallic powders – Determination of particle size by dry sieving*.

This Standard shall be under jurisdiction of China National non-ferrous metals Standardization Technical Committee (SAC/TC 243).

Drafting organizations of this Standard: Jining Unbounded Technology Co., Ltd., Central Iron & Steel Research Institute.

Main drafters of this Standard: Jiang Yongshan, He Zhaoshu, Li Junfeng.

This Standard replaces the following previous standards:

- GB/T 1480-1995;
- GB/T 1480-1984.

Metallic powders –

Determination of particle size by dry sieving

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.

This Standard is not applicable to powders in which the morphology differs markedly from being equiaxial, for flake-type powders. This Standard is also not applicable to metallic powders having a particle size wholly or mostly under 45µm.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 565 *Test sieves - woven metal wire cloth, perforated and electroformed sheet – Nominal sizes of openings*

ISO 2591 *Test sieving*

3 Principle

Separation of the metallic powder into particle size fractions by shaking through a set of wire cloth test sieves arranged in consecutive order of size of aperture openings. Weighing of the fractions retained on each sieve and the fraction passing the finest sieve.

4 Apparatus

4.1 Calibrated series of non-magnetic wire cloth sieves

4.1.1 The set has different nominal aperture sizes. Each sieve cloth shall be mounted in a non-magnetic metal frame having a nominal diameter of 200 mm

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