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Pulver för pulvermetallurgiska ändamål – Provtagning (ISO 3954:2007)

Powders for powder metallurgical purposes – Sampling (ISO 3954:2007)

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Denna standard ersätter SS-EN 23954, utgåva 1.

The European Standard EN ISO 3954:2007 has the status of a Swedish Standard. This document contains the official English version of EN ISO 3954:2007.

This standard supersedes the Swedish Standard SS-EN 23954, edition 1.

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EUROPEAN STANDARD

EN ISO 3954

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2007

ICS 77.160

Supersedes EN 23954:1993

English Version

Powders for powder metallurgical purposes - Sampling (ISO 3954:2007)

Poudres pour emploi en métallurgie des poudres -
Échantillonnage (ISO 3954:2007)

Pulver für die Pulvermetallurgie - Probenahme (ISO
3954:2007)

This European Standard was approved by CEN on 27 August 2007.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN ISO 3954:2007) has been prepared by Technical Committee ISO/TC 119 "Powder metallurgy" in collaboration with Technical Committee CEN/SS M11 "Powder metallurgy", the secretariat of which is held by CMC.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2008, and conflicting national standards shall be withdrawn at the latest by March 2008.

This document supersedes EN 23954:1993.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of ISO 3954:2007 has been approved by CEN as a EN ISO 3954:2007 without any modification.

Powders for powder metallurgical purposes — Sampling

1 Scope

This International Standard specifies procedures for the sampling of powders for powder metallurgical purposes.

It also covers the splitting of the sample into the quantity required for testing.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply (see also Figure 1).

2.1

lot

quantity of powder processed or produced under conditions that are presumed uniform

2.2

increment

quantity of powder obtained by a sampling device at one time from a single lot

2.3

gross sample

quantity of powder, adequate for the tests to be performed, consisting of all the increments taken from a single lot

2.4

composite sample

blended entire gross sample or part thereof

NOTE 1 Alternatively, it may be obtained by splitting the lot.

NOTE 2 However it is obtained, it is essential that it be thoroughly blended.

2.5

test sample

quantity of powder taken from the composite sample for determining a single property or for preparing test pieces

NOTE It is normally taken by splitting the composite sample.

2.5.1

test portion

definite quantity of powder drawn from the test sample (or, if both are the same, from the composite sample) and on which the test is carried out

2.5.2

test piece

test specimen

object of specified form prepared from a test sample

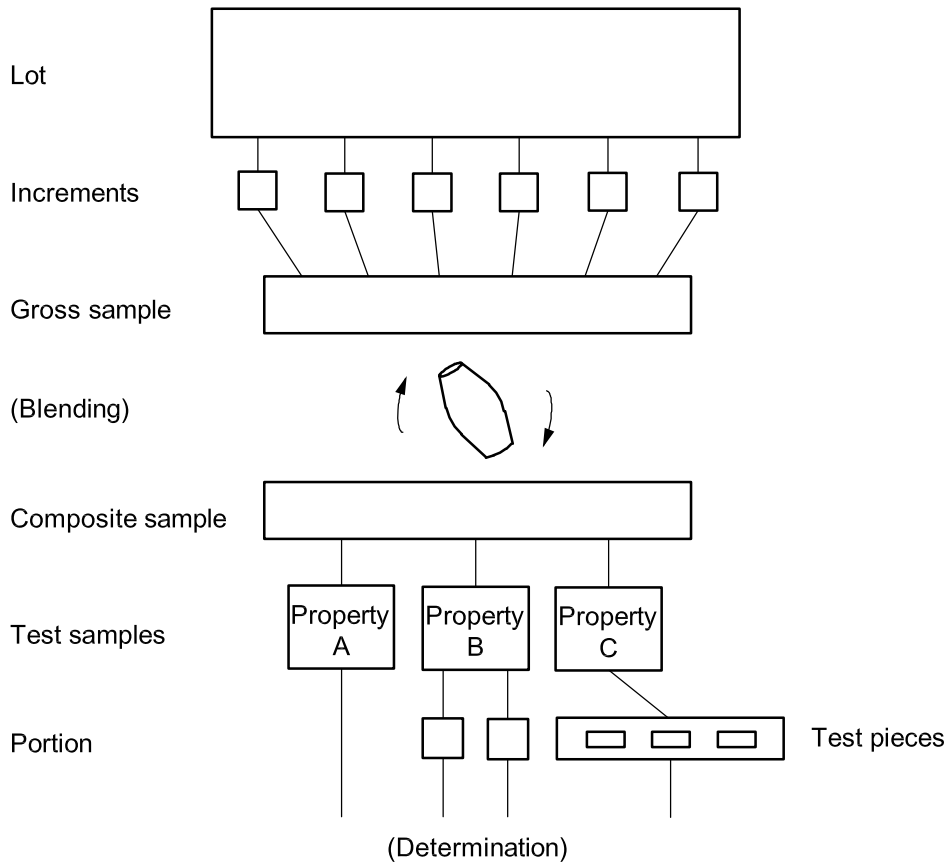


Figure 1 — Sampling scheme

3 Number of increments

3.1 Sampling during discharge in a continuous stream

If the entire lot is discharged in a continuous stream through an opening, it may be sampled during discharge. In such a case, increments shall be taken at regular intervals during the entire discharge period. The number of increments shall depend on the accuracy desired. At least three increments shall be taken, one during the time taken to discharge the first third of the lot, one half-way through the discharge period and one during the time taken to discharge the last third.

3.2 Sampling from powders packaged in containers

Unless otherwise agreed, the number of containers listed in Table 1 shall be selected at random from the lot when samples are taken from powder packaged in containers. One or more increments shall be taken from every selected container to provide a gross sample. If containers holding different quantities are included in the lot, the containers selected shall be from the lot and the number of increments taken from every selected container shall be in proportion to the content of the container.