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International Standard



4296/2

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

**Manganese ores — Sampling —
Part 2: Preparation of samples**

Minerais de manganèse — Échantillonnage — Partie 2: Préparation des échantillons

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4296/2 was developed by Technical Committee ISO/TC 65, *Manganese and chromium ores*, and was circulated to the member bodies in March 1983.

It has been approved by the member bodies of the following countries:

Australia	Germany, F.R.	South Africa, Rep. of
Austria	India	Thailand
Bulgaria	Italy	United Kingdom
China	Japan	USSR
Czechoslovakia	Poland	
Egypt, Arab Rep. of	Romania	

The member body of the following country expressed disapproval of the document on technical grounds:

France

Manganese ores — Sampling — Part 2: Preparation of samples

0 Introduction

ISO 4296 consists of the following parts:

Part 1: Increment sampling.

Part 2: Preparation of samples.

1 Scope and field of application

This part of ISO 4296 specifies methods of preparing samples of manganese ores for determining the chemical composition and moisture content of a consignment. The methods are applicable to all manganese ores, whether natural or processed.

Details of the riffle divider to be used are given in the annex.

2 References

ISO 565, *Test sieves — Woven metal wire cloth, perforated plate and electroformed sheet — Nominal sizes of openings.*

ISO 4296/1, *Manganese ores — Sampling — Part 1: Increment sampling.*

ISO 4299, *Manganese ores — Determination of moisture content.*

3 Definitions

3.1 lot: A definite quantity of an ore, processed or produced under conditions which are presumed uniform.

3.2 consignment: A quantity of an ore delivered at one time. The consignment may consist of one or more lots or parts of lots.

3.3 increment:

- 1) A quantity of ore taken at one time from a consignment.
- 2) A quantity taken in the increment division method.

3.4 subsample:

- 1) A quantity of an ore consisting of several increments taken from a part of a consignment.
- 2) A composite of several increments which have been crushed and divided individually.

3.5 gross sample:

- 1) The quantity of an ore consisting of all the increments taken from a consignment.
- 2) An aggregation of all the increments or all the subsamples after they have been crushed and divided individually.

3.6 divided sample: A sample obtained by a method of division.

3.7 moisture sample: The sample taken for the determination of moisture content of the consignment or part of the consignment.

3.8 sample for chemical analysis: The sample taken for the determination of chemical composition of the consignment or part of the consignment.

3.9 final sample: Any sample for determination of moisture content or chemical composition, which is prepared from each increment, each subsample, or from the gross sample in accordance with the specified method for that type of sample.

3.10 whole-through sieve size: The size of openings, in millimetres, of a sieve through which 100 % of the sample passes.

4 General rules

4.1 The sample for each required determination shall be taken according to ISO 4296/1.

4.2 Samples for moisture determination and chemical analysis shall be prepared separately. Moisture content shall be determined immediately.