
International Standard



8531

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

Manganese and chromium ores — Experimental methods for checking the precision of moisture determination

Minerais de manganèse et de chrome — Méthodes expérimentales de contrôle de la fidélité de la détermination de l'humidité

First edition — 1986-11-15

UDC 553.32 + 553.461 : 543.712

Ref. No. ISO 8531-1986 (E)

Descriptors: minerals and ores, manganese ores, chromate minerals, tests, determination, humidity, fidelity.



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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 preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8531 was prepared by Technical Committee ISO/TC 65, *Manganese and chromium ores*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Manganese and chromium ores — Experimental methods for checking the precision of moisture determination

1 Scope and field of application

This International Standard specifies experimental methods to be applied for checking the precision of moisture determination of manganese and chromium ores, whether natural or processed, being carried out in accordance with the methods specified in the relevant International Standards.

NOTE — An outline of the method for determination of permissible tolerance for duplicate moisture determinations on gross samples is given in the annex.

2 References

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

ISO 4296/2, *Manganese ores — Sampling — Part 2: Preparation of samples.*

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

3 General conditions

3.1 The sampling, preparation of moisture samples and moisture determination shall be carried out in accordance with the methods specified in the relevant International Standards.

3.2 The mass and number of increments of a sample for the purposes of experiment shall be determined by applying the relevant requirements given in ISO 4296/1, for manganese ores, and in a future International Standard, for chromium ores.

3.3 The levels of moisture content shall be as those given in the table of precision of ISO 4299 for manganese ores, and in a future International Standard for chromium ores.

3.4 The experiment shall be repeated at least 10 times for any level of moisture content.

3.5 The average moisture content of a consignment obtained by this experiment shall be the moisture content of the consignment for commercial purposes.

4 Experimental method

4.1 Sampling procedure

A pair of gross samples, or subsamples each of which consists of the number of increments of a specified mass as determined according to the requirements specified in ISO 4296/1, for manganese ores, and in a future International Standard, for chromium ores, shall be constituted for a consignment.

4.2 Preparation of experimental samples

A pair of final moisture samples shall be prepared from each of the respective gross samples. The preparation of these two sets of samples shall be carried out separately.

4.3 Preparation of final moisture samples

4.3.1 The particle size and mass of the final moisture sample for coarse ores shall be minus 22,4 mm and 5 kg or minus 10,0 mm and 1 kg.

NOTE — Any reduction in sample size or mass of a moisture sample should be carried out with extreme caution to prevent loss of moisture.

4.3.2 The particle size and mass of the final moisture sample for fine ores shall be minus 10,0 mm and 1 kg. See the figure for processes of moisture experiment, as an example.

4.4 Apparatus and procedure of moisture testing

The requirements for apparatus and procedure of moisture testing shall be as specified in ISO 4299 for manganese ores, and in a future International Standard for chromium ores.

4.5 Data sheet

It is recommended that the experimental data be recorded on a data sheet, such as that given in the table.

5 Analysis of experimental data

The analysis of experimental data shall be conducted on each of the levels of moisture content.