

SLOVENSKI STANDARD SIST ISO 6129:2001

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Chromium ores -- Determination of hygroscopic moisture content in analytical samples -- Gravimetric method

iTeh STANDARD PREVIEW

Minerais de chrome -- Détermination de l'humidité des échantillons pour analyse --Méthode gravimétrique

SIST ISO 6129:2001

Ta slovenski standard je istoveten z; 49200554270f/sist-iso-6129:1981

<u>ICS:</u>

73.060.30 Kromove rude

Chromium ores

SIST ISO 6129:2001

en



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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEX CHAPODHAR OPPAHUSALUN TO CTAHDAPTUSALUNO ORGANISATION INTERNATIONALE DE NORMALISATION

Chromium ores — Determination of hygroscopic moisture content in analytical samples — Gravimetric method

Minerais de chrome — Détermination de l'humidité des échantillons pour analyse — Méthode gravimétrique

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Descriptors : chromate minerals, tests, determination, water, gravimetric analysis.

SIST ISO 6129:2001

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (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 set up 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 6129 was developed by Technical Committee ISO/TC 65, VIEW Manganese and chromium ores, and was circulated to the member bodies in February 1980.

It has been approved by the member bodies of the following countries 29:2001

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Australia
Austria
Bulgaria
China
Czechoslovakia
Egypt, Arab Rep. of
France

Hungary 492b03 India Ireland Italy Japan Korea, Dem. P. Rep. of Poland

492b0354Portugal iso-6129-2001 Romania South Africa, Rep. of United Kingdom USSR

No member body expressed disapproval of the document.

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Chromium ores — Determination of hygroscopic moisture content in analytical samples — Gravimetric method

1 Scope and field of application

This International Standard specifies a method for the determination of the hygroscopic moisture content in analytical samples of chromium ores, intended to be carried out simultaneously with the determination of other constituents of the same analytical sample so that the contents of the other constituents can be calculated on the basis of the absolutely dry ore.

It should be read in conjunction with ISO 6629.

2 Reference

ISO 6629, Chromium ores and concentrates - Methods of chemical analysis - General instructions. STANDARD Expression of results

3 Principle

(standards.it.ehmath)d of calculation

Drying to constant mass, in an oven at 105 to 110 °C, of a test 6129 The hygroscopic moisture content is given, as a percentage by portion previously dried in air. https://standards.iteh.ai/catalog/standards/sist/0b mass, by the formula

e-9213-

Apparatus 4

Ordinary laboratory apparatus and

4.1 Weighing bottle, with stopper, having a diameter not less than 5 cm.

4.2 Oven, capable of being maintained at 105 to 110 °C.

5 Sample¹⁾

Use a test sample which has been crushed to a size not exceeding 0,10 mm (checked on a sieve of appropriate size) and air-dried under laboratory conditions.

6 Procedure

6.1 Test portion

Weigh 5 g of the test sample into the weighing bottle (4.1), which has been previously dried in the oven (4.2) at a temperature of 105 to 110 °C and weighed together with its stopper.

 $492b0354270f/sist-iso-612(m_2^{-001}m_2) \times 100$ m_0

where

6.2 Determination

preceding the increase.

is the mass, in grams, of the test portion; m_0

 m_1 is the mass, in grams, of the weighing bottle, its contents and stopper before drying;

Place the open weighing bottle containing the test portion (6.1) in the oven (4.2), controlled at 105 to 110 °C. After 1 h, close

the bottle with its stopper and leave it to cool in a desiccator for

20 to 30 min. Remove the bottle from the desiccator, slightly

Repeat the operations of drying (for periods of 30 min), cooling

and weighing until the difference between two successive masses does not exceed 0,000 5 g. If, after repeated drying,

the test portion increases in mass, then accept as final the mass

open the bottle and quickly close it again, then weigh it.

 m_2 is the mass, in grams, of the weighing bottle, its contents and stopper after drying.

7.2 Permissible tolerances on results of duplicate determinations

Moisture content, % (m/m)		Permissible tolerance,
from	to	% (<i>m/m</i>) (in absolute value)
0,1	0,2	0,02
0,2	0,4	0,03
0,4	0,8	0,05
0,8	1,6	0,08
1,6	3,2	0,12
3,2	5,0	0,20

1) International Standards on the sampling of chromium ores, and of the preparation of samples, are in preparation.

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