International Standard

ISO 9033

# Aluminium ores — Determination of the moisture content of bulk material

*Minerais alumineux — Détermination de l'humidité du matériau en vrac*

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ISO copyright office
CP 401 • CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
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# Contents

Page

**Foreword** ..... **iv**
**Introduction** ..... **v**
**1 Scope** ..... **1**
**2 Normative references** ..... **1**
**3 Terms and definitions** ..... **1**
**4 Principle** ..... **1**
**5 Apparatus** ..... **1**
**6 Sampling and samples** ..... **1**
**7 Procedure** ..... **2**
7.1 Test portion ..... 2
7.2 Number of determinations ..... 2
7.3 Drying of test portion ..... 2
**8 Expression of results** ..... **3**
8.1 Moisture content of test portion ..... 3
8.2 Moisture content of consignment ..... 3
8.2.1 Moisture samples from each increment or subsample analysed separately ..... 3
8.2.2 Moisture samples combined to from a gross sample ..... 4
8.3 Correction for rainfall and sprayed water ..... 4
8.4 Calculation of final result ..... 4
**9 Test report** ..... **4**
**Annex A** (informative) **Determination of moisture content of adhesive or wet aluminium ore** ..... **5**
**Annex B** (normative) **Correction either sprayed water or rainfall, or both** ..... **7**

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This document was prepared by Technical Committee ISO/TC 79, *Light metals and their alloys*, Subcommittee SC 12, *Aluminium ores*.

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This second edition cancels and replaces the first edition (ISO 9033:1989), which has been technically revised.

The main changes are as follows:

— the maximum allowable difference between subsequent weighings of dried samples and accuracy of weighing in Table 1 has been modified;

— a requirement on dried ore has been added to Clause A.2.

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# Introduction

Aluminum ores are an important raw material for alumina production and their annual consumption is very large. Moisture content is an important parameter in commercial transactions of aluminum ores, so it is necessary to formulate a method to determine the moisture content of bulk material in aluminum ores in order to reduce disputes in the trade of aluminum ores.

Annex A specifies a method to be used when it is difficult to carry out sieving, crushing and dividing owing to the sample being adhesive or excessively wet. In this case, the sample may be pre-dried until preparation can be conducted without any trouble. The pre-dried moisture content of a consignment can be determined by the procedure specified in Annex A.

Annex B specifies methods of correction either sprayed water or rainfall or both. In the event of the consignment being subjected to either sprayed water or rainfall or both to control dust emission, the moisture content of the consignment can be corrected for this added water in accordance with Annex B.

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