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# International Standard



# 5069/1

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

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## **Brown coals and lignites — Principles of sampling — Part 1 : Sampling for determination of moisture content and for general analysis**

*Charbons bruns et lignites — Principes d'échantillonnage — Partie 1 : Échantillonnage pour la détermination de l'humidité et pour l'analyse générale*

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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 5069/1 was developed by Technical Committee ISO/TC 27, *Solid mineral fuels*, and was circulated to the member bodies in March 1982.

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

Australia	Egypt, Arab Rep. of	Romania
Austria	Germany, F. R.	Spain
Belgium	Hungary	Turkey
Canada	India	USSR
China	New Zealand	
Czechoslovakia	Poland	

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

Japan

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# Brown coals and lignites — Principles of sampling — Part 1 : Sampling for determination of moisture content and for general analysis

## 0 Introduction

This International Standard deals with aspects of the sampling of brown coals and lignites.

Part 1 presents the principles of methods for the sampling of brown coals and lignites from streams, wagons, barges and stock-piles which differ from those described in sampling of hard coals. Other general principles and the procedure of replicate sampling are the same as for hard coals.

Part 2 gives methods for the preparation of laboratory and analysis samples of brown coals and lignites for the determination of moisture content and general analysis.

NOTE — Attention is drawn to ISO 1213.

## 1 Scope and field of application

This part of ISO 5069 establishes the principles of the methods to be used for the sampling of brown coals and lignites (herein after called "coals") from streams, wagons, barges and stock-piles when the sample is to be used for the determination of moisture content and general analysis. These methods differ from those specified in ISO 1988.

## 2 References

ISO 1213, *Solid mineral fuels — Vocabulary*

*Part 1 : Terms relating to coal preparation.*<sup>1)</sup>

*Part 2 : Terms relating to coal sampling and analysis.*<sup>2)</sup>

ISO 1988, *Hard coal — Sampling*.

ISO 5068, *Brown coals and lignites — Determination of moisture — Indirect gravimetric method*.

ISO 5069/2, *Brown coals and lignites — Principles of sampling — Part 2 : Sample preparation for determination of moisture content and for general analysis*.

## 3 General principles

### 3.1 Types of gross samples

Usually one gross sample is taken, and is used for both moisture and general analysis (common sample). Under certain circumstances (for example visibly wet coal), it may be necessary to take a separate gross sample for the determination of moisture (special moisture sample). The types of samples are shown in figure 1 of ISO 5069/2.

### 3.2 General directives for collecting moisture samples

The sample destined for moisture determination should be stored in moisture-tight containers. Precautions shall be taken when handling to avoid loss of moisture.

### 3.3 Precision

In this International Standard all references to precision imply a 95 % probability level. Standards of precision are specified in table 1.

Table 1 — Standards of precision

Parameter	Value of parameter	Standard of precision
Ash (dry basis)	Up to 20 %	± One-tenth of true ash content
	More than 20 %	± 2 % absolute
Moisture (as received)	Up to 20 %	± One-tenth of true moisture content
	More than 20 %	± 2 % absolute

1) At present at the stage of draft. (Revision of ISO/R 1213/1.)

2) At present at the stage of draft. (Revision of ISO/R 1213/2.)