

KIVISÜSI JA KOKS
Üldsüsiniku, vesiniku ja lämmastiku määramine
Instrumentaalne meetod

Coal and coke
Determination of total carbon, hydrogen and nitrogen
Instrumental method
(ISO 29541:2025, identical)

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

See Eesti standard EVS-ISO 29541:2025 sisaldab rahvusvahelise standardi ISO 29541:2025 „Coal and coke. Determination of total carbon, hydrogen and nitrogen. Instrumental method“ identset ingliskeelset teksti.	This Estonian Standard EVS-ISO 29541:2025 consists of the identical English text of the International Standard ISO 29541:2025 „Coal and coke. Determination of total carbon, hydrogen and nitrogen. Instrumental method“.
Ettepaneku rahvusvahelise standardi ümbertrüki meetodil ülevõtuks on esitanud EVS/TK 57, standardi avaldamist on korraldanud Eesti Standardimis- ja Akrediteerimiskeskus.	Proposal to adopt the International Standard by reprint method has been presented by EVS/TC 57, the Estonian Standard has been published by the Estonian Centre for Standardisation and Accreditation.
Standard EVS-ISO 29541:2025 on jõustunud sellekohase teate avaldamisega EVS Teatajas.	Standard EVS-ISO 29541:2025 has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
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Käsitlusala

See dokument kirjeldab instrumentaalset meetodit üldsüsiniku, vesiniku ja lämmastiku määramiseks söes ja kooksis.

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ICS 75.160.10; 73.040

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 27, *Coal and coke*, Subcommittee SC 5, *Methods of analysis*.

This second edition cancels and replaces the first edition (ISO 29541:2010), which has been technically revised.

The main changes are as follows:

- the repeatability limits have been updated.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html

Introduction

The reliable determination of total carbon, hydrogen and nitrogen is important for engineering calculations applied to the combustion of coal. The precise and accurate determination of the mass fraction of carbon in coal is essential for carbon accounting purposes.

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Coal and coke — Determination of total carbon, hydrogen and nitrogen — Instrumental method

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1 Scope

This document specifies a method for the determination of total carbon, hydrogen and nitrogen in coal and coke by instrumental methods.

NOTE This document has been validated for coal only, in accordance with the principles of ISO 5725-1. The suite of samples used in the interlaboratory study (ILS) to determine the precision data did not include coke and therefore there is insufficient data to state precision limits for coke.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 687, *Coke — Determination of moisture in the general analysis test sample*

ISO 5068-2, *Brown coals and lignites — Determination of moisture content — Part 2: Indirect gravimetric method for moisture in the analysis sample*

ISO 11722, *Solid mineral fuels — Hard coal — Determination of moisture in the general analysis test sample by drying in nitrogen*

ISO 13909-4, *Hard coal and coke — Mechanical sampling — Part 4: Coal — Preparation of test samples*

ISO 18283, *Coal and coke — Manual sampling*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp>

— IEC Electropedia: available at <https://www.electropedia.org/>