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STN	**Tuhé alternatívne palivá Metódy stanovenia obsahu uhlíka (C), vodíka (H), dusíka (N) a síry (S) inštrumentálnou metódou (ISO 21663: 2020)**	**STN EN ISO 21663 65 7518**

Solid recovered fuels - Methods for the determination of carbon (C), hydrogen (H), nitrogen (N) and sulphur (S) by the instrumental method (ISO 21663:2020)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/21

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English Version

Solid recovered fuels - Methods for the determination of carbon (C), hydrogen (H), nitrogen (N) and sulphur (S) by the instrumental method (ISO 21663:2020)

Combustibles solides de récupération - Méthodes de détermination de la teneur en carbone (C), hydrogène (H), azote (N) et soufre (S) par la méthode instrumentale (ISO 21663:2020)

Feste Sekundärbrennstoffe - Verfahren zur instrumentellen Bestimmung von Kohlenstoff (C), Wasserstoff (H), Stickstoff (N) und Schwefel (S) (ISO 21663:2020)

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European foreword

This document (EN ISO 21663:2020) has been prepared by Technical Committee ISO/TC 300 "Solid Recovered Fuels" in collaboration with Technical Committee CEN/TC 343 “Solid Recovered Fuels” the secretariat of which is held by SFS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2021, and conflicting national standards shall be withdrawn at the latest by June 2021.

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INTERNATIONAL STANDARD

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Solid recovered fuels — Methods for the determination of carbon (C), hydrogen (H), nitrogen (N) and sulphur (S) by the instrumental method

Combustibles solides de récupération — Méthodes de détermination de la teneur en carbone (C), hydrogène (H), azote (N) et soufre (S) par la méthode instrumentale

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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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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This document was prepared by Technical Committee ISO/TC 300 *Solid recovered fuels*.

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.

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Introduction

The determination of total content of carbon, hydrogen, nitrogen and sulfur is usually performed using instrumental methods. Depending on the amount of test portion used two different types of instrumental methods can be used: micro methods require few milligrams of sample; macro methods use grams of sample. Micro methods require a very careful preparation of the test sample for Solid Recovered Fuel (SRF) analysis.

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INTERNATIONAL STANDARD **ISO 21663:2020(E)**

Solid recovered fuels — Methods for the determination of carbon (C), hydrogen (H), nitrogen (N) and sulphur (S) by the instrumental method

1 Scope

This document specifies the determination of total content of carbon, hydrogen, nitrogen and sulfur in solid recovered fuels by instrumental method. Depending on the amount of test portion, micro or macro instrumental apparatus are used.

This method is applicable for concentrations on dry matter basis of C > 0,1 %, N > 0,1 %, H > 0,1 % and S > 0,05 %.

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 21637, *Solid recovered fuels — Terminology, definitions and descriptions*

ISO 21660-3[1)], *Solid recovered fuels — Determination of moisture content using the oven dry method — Part 3: Moisture in general analysis sample*

ISO 21646[2)], *Solid recovered fuels — Sample preparation*

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