ICS 75.080 SLOVENSKÁ TECHNICKÁ NORMA December 2025

STN	**Ropné výrobky Stanovenie obsahu síry Energo-disperzná röntgenová fluorescenčná spektrometria (ISO 8754: 2025)**	**STN EN ISO 8754** 65 6114

Petroleum products - Determination of sulfur content - Energy-dispersive X-ray fluorescence spectrometry (ISO 8754:2025)

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. 11/25

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Oznámením tejto normy sa ruší
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 8754

August 2025

ICS 75.080

Supersedes EN ISO 8754:2003

English Version

Petroleum products - Determination of sulfur content - Energy-dispersive X-ray fluorescence spectrometry (ISO 8754:2025)

Produits pétroliers - Détermination de la teneur en soufre - Spectrométrie de fluorescence de rayons X dispersive en énergie (ISO 8754:2025)

Mineralölerzeugnisse - Bestimmung des Schwefelgehaltes - Energiedispersive Röntgenfluoreszenz-Spektrometrie (ISO 8754:2025)

This European Standard was approved by CEN on 19 May 2025.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN ISO 8754:2025) has been prepared by Technical Committee ISO/TC 28 "Petroleum and related products, fuels and lubricants from natural or synthetic sources" in collaboration with Technical Committee CEN/TC 19 “Gaseous and liquid fuels, lubricants and related products of petroleum, synthetic and biological origin” the secretariat of which is held by NEN.

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of an identical text or by endorsement, at the latest by February 2026, and conflicting national standards shall be withdrawn at the latest by February 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 8754:2025 has been approved by CEN as EN ISO 8754:2025 without any modification.

International Standard

ISO 8754

Petroleum products — Determination of sulfur content — Energy-dispersive X-ray fluorescence spectrometry

Produits pétroliers — Détermination de la teneur en soufre — Spectrométrie de fluorescence de rayons X dispersive en énergie

Third edition
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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.

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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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 28, *Petroleum and related products, fuels and lubricants from natural or synthetic sources,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 19, *Gaseous and liquid fuels, lubricants and related products of petroleum, synthetic and biological origin,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 8754:2003), which has been technically revised.

The main changes are as follows:

— the Scope has been expanded to biofuel and biofuel blends without precision statement;

— procedures for matrix corrections have been described in A.3;

— Clause 3 (Terms and definitions) has been added;

— Bibliography has been added.

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

A specialized procedure, using the analytical technique described in this document, for automotive fuels with sulfur contents below 0,20 % mass fraction, is covered by ISO 13032.

This test method can be used for biofuel or biofuel blends. The correction of matrix effects with regards to oxygen content are described in A.3. Biofuel or biofuel blends were not tested during the determination of the precision of the test method.

International Standard **ISO 8754:2025(en)**

Petroleum products — Determination of sulfur content — Energy-dispersive X-ray fluorescence spectrometry

WARNING — The use of this document may involve hazardous materials, operations and equipment. This document does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this document to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

1 Scope

This document specifies a method using energy-dispersive X-ray fluorescence spectrometry for the determination of the sulfur content of petroleum products, such as naphthas, unleaded motor gasolines, middle distillates, residual fuel oils, base lubricating oils and components. The method is applicable to products with sulfur content in the range of a mass fraction of 0,03 % to a mass fraction of 5,00 %.

This test method can be used for biofuel or biofuel blends.

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 3170, *Hydrocarbon Liquids — Manual sampling*

ISO 3171, *Petroleum liquids — Automatic pipeline sampling*