BS EN ISO 13032:2024

BSI Standards Publication

Petroleum and related products — Determination of low concentration of sulfur in automotive fuels — Energy-dispersive X-ray fluorescence spectrometric method

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National foreword

This British Standard is the UK implementation of EN ISO 13032:2024. It is identical to ISO 13032:2024. It supersedes BS EN ISO 13032:2012, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PTI/2, Liquid Fuels.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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English Version

Petroleum products - Determination of low concentration of sulfur in automotive fuels - Energy-dispersive X-ray fluorescence spectrometric method (ISO 13032:2024)

Produits pétroliers et connexes - Détermination de la teneur en soufre en faible concentration dans les carburants pour automobiles - Méthode spectrométrique de fluorescence de rayons X dispersive en énergie (ISO 13032:2024)

Mineralölerzeugnisse - Bestimmung niedriger Schwefelgehalte in Kraftstoffen - Energiedispersives Röntgenfluoreszenzspektrometrieverfahren (ISO 13032:2024)

This European Standard was approved by CEN on 25 January 2024.

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European foreword

This document (EN ISO 13032:2024) 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of an identical text or by endorsement, at the latest by February 2025, and conflicting national standards shall be withdrawn at the latest by February 2025.

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 13032:2024 has been approved by CEN as EN ISO 13032:2024 without any modification.

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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 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 second edition cancels and replaces the first edition (ISO 13032:2012), which has been technically revised.

The main changes are as follows:

— extension of the Scope to include paraffinic diesel fuel and neat fatty acid methyl ester (FAME);

— update of precision statements as well as the concentration range which are based on results of a new interlaboratory study, for gasoline and diesel type fuels, and FAME type samples.

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Introduction

This document is directed specifically at the lower end of the concentration range covered in ISO 20847. By selecting the instrument type, a better signal-to-background ratio for sulfur K-$L_{2,3}$ emission is ensured. A knowledge of the general composition of the sample for analysis is advantageous in obtaining the best test result.

NOTE IUPAC X-ray line notation (S K-$L_{2,3}$) is used in this document; the corresponding Siegbahn X-ray line notation (S Kα or S $K\alpha_{1,2}$) is being phased out.

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