SLOVENSKI STANDARD
SIST EN ISO 20884:2004

01-september-2004

Naftni proizvodi - Določevanje žvepla v gorivih za motorna vozila - Metoda z valovno disperzivno rentgensko fluorescenčno spektrometrijo (ISO 20884:2004)

Petroleum products - Determination of sulfur content of automotive fuels - Wavelength-dispersive X-ray fluorescence spectrometry (ISO 20884:2004)

Mineralölerzeugnisse - Bestimmung des Schwefelgehaltes in Kraftstoffen für Kraftfahrzeuge - Wellenlängendispersive Röntgenfluoreszenz-Spektrometrie (ISO 20884:2004)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Produits pétroliers - Détermination de la teneur en soufre des carburants pour automobiles - Spectrométrie de fluorescence de rayons X dispersive en longueur d'onde (ISO 20884:2004)

SIST EN ISO 20884:2004
https://standards.iteh.ai/catalog/standards/sist/302371c8-612b-4ae7-9ab-dd6f2e410bd9/sist-en-iso-20884-2004

Ta slovenski standard je istoveten z: **EN ISO 20884:2004**

ICS:

75.160.20	Tekoča goriva	Liquid fuels

SIST EN ISO 20884:2004 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

SIST EN ISO 20884:2004

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 20884:2004
https://standards.iteh.ai/catalog/standards/sist/802371e8-0128-4ac7-9afb-dd6f2e410bd9/sist-en-iso-20884-2004

SIST EN ISO 20884:2004

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 20884

March 2004

ICS 75.080; 75.160.30

English version

Petroleum products - Determination of sulfur content of automotive fuels - Wavelength-dispersive X-ray fluorescence spectrometry (ISO 20884:2004)

Produits pétroliers - Détermination de la teneur en soufre des carburants pour automobiles - Spectrométrie de fluorescence de rayons X dispersive en longueur d'onde (ISO 20884:2004)

Mineralölerzeugnisse - Bestimmung niedriger Schwefelgehalte in Automobilkraftstoffen - Wellenlängendispersive Röntgenfluoreszenz-Spektrometrie (ISO 20884:2004)

This European Standard was approved by CEN on 1 March 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

SIST EN ISO 20884:2004
https://standards.iteh.ai/catalog/standards/sist/80237fc8-0128-4ac7-9ab-dd6f2e4106d9/sist-en-iso-20884-2004

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

© 2004 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

SIST EN ISO 20884:2004

Foreword

This document (EN ISO 20884:2004) has been prepared by Technical Committee ISO/TC 28 "Petroleum products and lubricants" in collaboration with Technical Committee CEN/TC 19 "Petroleum products, lubricants and related products", 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 September 2004, and conflicting national standards shall be withdrawn at the latest by September 2004.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 20884:2004 has been approved by CEN as EN ISO 20884:2004 without any modifications.

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN ISO 20884:2004
https://standards.iteh.ai/catalog/standards/sist/802371e8-0128-4ac7-9afb-dd6f2e410bd9/sist-en-iso-20884-2004

SIST EN ISO 20884:2004

INTERNATIONAL STANDARD

ISO 20884

First edition
2004-03-15

Petroleum products — Determination of sulfur content of automotive fuels — Wavelength-dispersive X-ray fluorescence spectrometry

Produits pétroliers — Détermination de la teneur en soufre des carburants pour automobiles — Spectrométrie de fluorescence de rayons X dispersive en longueur d'onde

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN ISO 20884:2004
https://standards.iteh.ai/catalog/standards/sist/802371e8-0128-4ac7-9afb-dd6f2e410bd9/sist-en-iso-20884-2004

Reference number
ISO 20884:2004(E)

© ISO 2004

SIST EN ISO 20884:2004

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN ISO 20884:2004
https://standards.iteh.ai/catalog/standards/sist/802371e8-0128-4ac7-9afb-dd6f2e410bd9/sist-en-iso-20884-2004

© ISO 2004

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

© ISO 2004 – All rights reserved

SIST EN ISO 20884:2004

Contents

Page

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN ISO 20884:2004
https://standards.iteh.ai/catalog/standards/sist/802371e8-0128-4ac7-9afb-dd6f2e410bd9/sist-en-iso-20884-2004

© ISO 2004 – All rights reserved

SIST EN ISO 20884:2004

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 20884 was prepared by Technical Committee ISO/TC 28, *Petroleum products and lubricants*.

iTeh STANDARD PREVIEW
(standards.iteh.ai)
SIST EN ISO 20884:2004
https://standards.iteh.ai/catalog/standards/sist/802371e8-0128-4ac7-9afb-dd6f2e410bd9/sist-en-iso-20884-2004

© ISO 2004 – All rights reserved

SIST EN ISO 20884:2004

Petroleum products — Determination of sulfur content of automotive fuels — Wavelength-dispersive X-ray fluorescence spectrometry

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

1 Scope

This International Standard specifies a wavelength-dispersive X-ray fluorescence (WDXRF) test method for the determination of the sulfur content of liquid, homogeneous automotive fuels from 5 mg/kg to 500 mg/kg, which have a maximum oxygen content of 2,7 % (*m/m*). This product range covers diesel fuels containing up to 5 % (*V/V*) fatty acid methyl ester (FAME) and motor gasolines.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Products with higher oxygen content show significant matrix effects, e.g. FAME used as biodiesel. Nevertheless, FAME may be analysed when the corresponding procedures are followed (see 4.3 and 7.1). For further details due to matrix effects and interferences, see Annex A.

SIST EN ISO 20884:2004
https://standards.iteh.ai/catalog/standards/sist/80237168-0128-4ac7-9afb-dd6f2e410bd9/sist-en-iso-20884-2004

Other products may be analysed with this test method. However, precision data for products other than those mentioned have not been established for this International Standard.

NOTE For the purposes of this International Standard, the terms "% (*m/m*)" and "% (*V/V*)" are used to represent the mass fraction and the volume fraction of a material respectively.

2 Normative references

The following referenced documents are indispensable for the application 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 3170:2004, *Petroleum liquids — Manual sampling*

ISO 3171:1988, *Petroleum liquids — Automatic pipeline sampling*

3 Principle

The sample under analysis is exposed in a sample cell to the primary radiation of an X-ray tube. The count rates of the S-Kα X-ray fluorescence and the count rate of the background radiation are measured. The sulfur content of the sample is determined from a calibration curve defined for the relevant measuring range.

NOTE Whilst the Siegbahn X-ray line notation (S-Kα) is used in this International Standard, the corresponding IUPAC X-ray line notation is S K-$L_{2,3}$.

© ISO 2004 – All rights reserved