



# SLOVENSKI STANDARD SIST EN ISO 20884:2019

01-december-2019

Nadomešča:  
SIST EN ISO 20884:2011

---

**Naftni proizvodi - Določevanje žvepla v gorivih za motorna vozila - Metoda z valovno disperzivno rentgensko fluorescenčno spektrometrijo (ISO 20884:2019)**

Petroleum products - Determination of sulfur content of automotive fuels - Wavelength-dispersive X-ray fluorescence spectrometry (ISO 20884:2019)

Mineralölerzeugnisse - Bestimmung des Schwefelgehaltes in Kraftstoffen - Wellenlängendispersive Röntgenfluoreszenz-Spektrometrie (ISO 20884:2019)

Produits pétroliers - Détermination de la teneur en soufre des carburants pour automobiles - Spectrométrie de fluorescence de rayons X dispersive en longueur d'onde (ISO 20884:2019)

**Ta slovenski standard je istoveten z: EN ISO 20884:2019**

---

**ICS:**

75.160.20      Tekoča goriva      Liquid fuels

**SIST EN ISO 20884:2019**      en,fr,de

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN ISO 20884:2019

<https://standards.iteh.ai/catalog/standards/sist/5628baad-398a-463e-9cf8-ccbeac969d8d/sist-en-iso-20884-2019>

EUROPEAN STANDARD

**EN ISO 20884**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2019

ICS 75.080; 75.160.30

Supersedes EN ISO 20884:2011

English Version

## Petroleum products - Determination of sulfur content of automotive fuels - Wavelength-dispersive X-ray fluorescence spectrometry (ISO 20884:2019)

Produits pétroliers - Détermination de la teneur en soufre des carburants pour automobiles - Spectrométrie de fluorescence de rayons X dispersive en longueur d'onde (ISO 20884:2019)

Mineralölerzeugnisse - Bestimmung des Schwefelgehaltes in Kraftstoffen - Wellenlängendispersive Röntgenfluoreszenz-Spektrometrie (ISO 20884:2019)

This European Standard was approved by CEN on 5 August 2019.

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 CEN-CENELEC Management Centre or to any CEN member.

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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

<b>Contents</b>	<b>Page</b>
<b>European foreword.....</b>	<b>3</b>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN ISO 20884:2019  
<https://standards.iteh.ai/catalog/standards/sist/5628baad-398a-463e-9cf8-ccbeac969d8d/sist-en-iso-20884-2019>

## European foreword

This document (EN ISO 20884:2019) 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 April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.

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.

This document supersedes EN ISO 20884:2011.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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

[SIST EN ISO 20884:2019](https://standards.iteh.ai/cen/standards/11307/11307-2019-0884-463e-9cf8-ccbeac969d8d/sist-en-iso-20884-2019)

<https://standards.iteh.ai/cen/standards/11307/11307-2019-0884-463e-9cf8-ccbeac969d8d/sist-en-iso-20884-2019>

### Endorsement notice

The text of ISO 20884:2019 has been approved by CEN as EN ISO 20884:2019 without any modification.

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST EN ISO 20884:2019

<https://standards.iteh.ai/catalog/standards/sist/5628baad-398a-463e-9cf8-ccbeac969d8d/sist-en-iso-20884-2019>

INTERNATIONAL  
STANDARD

ISO  
20884

Third edition  
2019-08

---

---

**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 20884:2019

<https://standards.iteh.ai/catalog/standards/sist/5628baad-398a-463e-9cf8-ccbeac969d8d/sist-en-iso-20884-2019>



Reference number  
ISO 20884:2019(E)

© ISO 2019

## iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 20884:2019

<https://standards.iteh.ai/catalog/standards/sist/5628baad-398a-463e-9cf8-ccbeac969d8d/sist-en-iso-20884-2019>



### **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2019

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Fax: +41 22 749 09 47  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland



<b>Contents</b>	<b>Page</b>
<b>Foreword</b> .....	<b>iv</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Principle</b> .....	<b>2</b>
<b>5 Reagents</b> .....	<b>2</b>
<b>6 Apparatus</b> .....	<b>2</b>
<b>7 Sampling</b> .....	<b>3</b>
<b>8 Calibration solutions</b> .....	<b>3</b>
8.1 Blank solution.....	3
8.2 Stock solution.....	3
8.3 Calibration solutions.....	3
8.4 Storage and stability of the calibration solutions.....	4
<b>9 Settings</b> .....	<b>4</b>
9.1 Measuring parameters.....	4
9.2 Optimization.....	4
9.3 Performance check of the spectrometer.....	4
<b>10 Calibration</b> .....	<b>5</b>
10.1 General.....	5
10.2 Calibration solutions.....	5
10.3 Calibration curves.....	5
10.4 Checking.....	6
<b>11 Procedure</b> .....	<b>6</b>
11.1 Samples with sulfur contents between 5 mg/kg and 60 mg/kg.....	6
11.2 Samples with sulfur contents between 60 mg/kg and 500 mg/kg.....	6
<b>12 Expression of results</b> .....	<b>6</b>
<b>13 Precision</b> .....	<b>7</b>
13.1 General.....	7
13.2 Repeatability, <i>r</i> .....	7
13.3 Reproducibility, <i>R</i> .....	7
<b>14 Test report</b> .....	<b>7</b>
<b>Annex A (informative) Good practices</b> .....	<b>8</b>
<b>Bibliography</b> .....	<b>9</b>