

---

**Industrija za predelavo nafte in zemeljskega plina - Tekočine in materiali za zaključna dela - 2. del: Merjenje lastnosti podpornih materialov, ki se uporabljajo v postopkih frakcioniranja in pri filtrskih zasipih s prodrom - Dopolnilo 1 (ISO 13503-2:2006/Amd 1:2009)**

Petroleum and natural gas industries - Completion fluids and materials - Part 2: Measurement of properties of proppants used in hydraulic fracturing and gravel-packing operations - Amendment 1: Addition of Annex B: Proppand specification (ISO 13503-2:2006/Amd 1:2009)

**iTeh STANDARD PREVIEW**

**(standards.iteh.ai)**

Erdöl- und Erdgasindustrie - Komplettierungsflüssigkeiten und -materialien - Teil 2: Messung der Eigenschaften von Stützmaterialien zum Einsatz bei hydraulischen Fraktionierungs- und in Kiespackungsvorgängen (ISO 13503-2:2006/Amd 1:2009)

<https://standards.iteh.ai/catalog/standards/sist/91a7a800-d0c2-4d21-b397-416a70316f46/sist-en-iso-13503-2-2007-a1-2010>

416a70316f46/sist-en-iso-13503-2-2007-a1-2010

Industries du pétrole et du gaz naturel - Fluides de complétion et matériaux - Partie 2: Mesurage des propriétés des matériaux de soutènement utilisés dans les opérations de fracturation hydraulique et de remplissage de gravier - Amendement 1: Ajout de l'Annexe B: Spécifications relatives aux matériaux de soutènement (ISO 13503-2:2006/Amd 1:2009)

**Ta slovenski standard je istoveten z: EN ISO 13503-2:2006/A1:2009**

---

**ICS:**

75.100	Maziva	Lubricants, industrial oils and related products
75.180.30	Oprema za merjenje prostornine in merjenje	Volumetric equipment and measurements

**SIST EN ISO 13503-2:2007/A1:2010** en,fr

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

SIST EN ISO 13503-2:2007/A1:2010

<https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70316f46/sist-en-iso-13503-2-2007-a1-2010>

EUROPEAN STANDARD

EN ISO 13503-2:2006/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2009

ICS 75.100

English Version

Petroleum and natural gas industries - Completion fluids and materials - Part 2: Measurement of properties of proppants used in hydraulic fracturing and gravel-packing operations - Amendment 1: Addition of Annex B: Proppand specification (ISO 13503-2:2006/Amd 1:2009)

Industries du pétrole et du gaz naturel - Fluides de complétion et matériaux - Partie 2: Mesurage des propriétés des matériaux de soutènement utilisés dans les opérations de fracturation hydraulique et de remplissage de gravier - Amendement 1: Ajout de l'Annexe B: Spécifications relatives aux matériaux de soutènement (ISO 13503-2:2006/Amd 1:2009)

Erdöl- und Erdgasindustrie - Komplettierungsflüssigkeiten und -materialien - Teil 2: Messung der Eigenschaften von Stützmaterialien zum Einsatz bei hydraulischen Fraktionierungs- und in Kiespackungsvorgängen (ISO 13503-2:2006/Amd 1:2009)

**iTeh STANDARD PREVIEW**

This amendment A1 modifies the European Standard EN ISO 13503-2:2006; it was approved by CEN on 7 October 2009.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This amendment 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 Management Centre has the same status as the official versions.

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



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

**Contents**

Page

Foreword.....3

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

[SIST EN ISO 13503-2:2007/A1:2010](https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70316f46/sist-en-iso-13503-2-2007-a1-2010)

<https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70316f46/sist-en-iso-13503-2-2007-a1-2010>

## Foreword

This document (EN ISO 13503-2:2006/A1:2009) has been prepared by Technical Committee ISO/TC 67 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" in collaboration with Technical Committee CEN/TC 12 "Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries" the secretariat of which is held by AFNOR.

This Amendment to the European Standard EN ISO 13503:2006 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2010, and conflicting national standards shall be withdrawn at the latest by May 2010.

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

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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

The text of ISO 13503-2:2006/Amd 1:2009 has been approved by CEN as a EN ISO 13503-2:2006/A1:2009 without any modification.

[SIST EN ISO 13503-2:2007/A1:2010](https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70316f46/sist-en-iso-13503-2-2007-a1-2010)

<https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70316f46/sist-en-iso-13503-2-2007-a1-2010>

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

SIST EN ISO 13503-2:2007/A1:2010

<https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70316f46/sist-en-iso-13503-2-2007-a1-2010>

INTERNATIONAL  
STANDARDISO  
13503-2First edition  
2006-11-01**AMENDMENT 1**  
2009-11-01

---

---

**Petroleum and natural gas industries —  
Completion fluids and materials —**

Part 2:

**Measurement of properties of proppants  
used in hydraulic fracturing and gravel-  
packing operations**iTeh STANDARD PREVIEW  
(standards.iteh.ai)**AMENDMENT 1: Addition of Annex B:  
Proppand specification**[SIST EN ISO 13503-2:2007/A1:2010](https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70310408/sist-en-iso-13503-2-2007-a1-2010)[https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-](https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70310408/sist-en-iso-13503-2-2007-a1-2010)[416a70310408/sist-en-iso-13503-2-2007-a1-2010](https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70310408/sist-en-iso-13503-2-2007-a1-2010)  
*Industries du pétrole et du gaz naturel — Fluides de complétion et  
matériaux —**Partie 2: Mesurage des propriétés des matériaux de soutènement  
utilisés dans les opérations de fracturation hydraulique et de  
remplissage de gravier**AMENDEMENT 1: Ajout de l'Annexe B: Spécifications relatives aux  
matériaux de soutènement*Reference number  
ISO 13503-2:2006/Amd.1:2009(E)

**ISO 13503-2:2006/Amd.1:2009(E)****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 13503-2:2007/A1:2010](https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70316f46/sist-en-iso-13503-2-2007-a1-2010)

<https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70316f46/sist-en-iso-13503-2-2007-a1-2010>

**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2009

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](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland



## 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.

Amendment 1 to ISO 13503-2:2006 was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for the petroleum, petrochemical and natural gas industries*, Subcommittee SC 3, *Drilling and completion fluids, and well cements*.

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

[SIST EN ISO 13503-2:2007/A1:2010](https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70316f46/sist-en-iso-13503-2-2007-a1-2010)

<https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70316f46/sist-en-iso-13503-2-2007-a1-2010>

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

SIST EN ISO 13503-2:2007/A1:2010

<https://standards.iteh.ai/catalog/standards/sist/94a7a806-d6c2-4d21-b597-416a70316f46/sist-en-iso-13503-2-2007-a1-2010>