

Irish Standard I.S. EN ISO 11961:2008

Petroleum and natural gas industries - Steel drill pipe (ISO 11961:2008)

© NSAI 2008

No copying without NSAI permission except as permitted by copyright law.

Incorporating amendments/corrigenda issued since publication:
EN ISO 11961:2008/AC:2009

This document replaces: I.S. EN ISO 11961:1997

This document is based on: EN ISO 11961:2008 EN ISO 11961:1996 Published: 1 November, 2008 15 August, 1997

This document was published under the authority of the NSAI and comes into effect on: 8 January, 2009

ICS number: 75.180.10 77.140.75

NSAI1 Swift Square,
Northwood, Santry

Dublin 9

T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W **NSAI.ie** **Sales:**T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Price Code: AC

Údarás um Chaighdeáin Náisiúnta na hÉireann

I.S. EN ISO 11961:2008/AC:2009

EUROPEAN STANDARD

EN ISO 11961:2008/AC

NORME EUROPÉENNE EUROPÄISCHE NORM

May 2009 Mai 2009 Mai 2009

ICS 75.180.10; 77.140.75

English version Version Française Deutsche Fassung

Petroleum and natural gas industries - Steel drill pipe (ISO 11961:2008/Cor 1:2009)

Industries du pétrole et du gaz naturel -Tiges de forage en acier (ISO 11961:2008/Cor 1:2009) Erdöl- und Erdgasindustrie - Stahl-Bohrrohre (ISO 11961:2008/Cor 1:2009)

This corrigendum becomes effective on 13 May 2009 for incorporation in the official German and English versions of the EN.

Ce corrigendum prendra effet le 13 mai 2009 pour incorporation dans les versions officielles allemande et anglaise de la EN.

Die Berichtigung tritt am 13.Mai 2009 zur Einarbeitung in die offizielle Deutsche und Englische Fassung der EN in Kraft.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

I.S. EN ISO 11961:2008/AC:2009

EN ISO 11961:2008/AC:2009 (E)

Endorsement notice

The text of ISO 11961:2008/Cor.1:2009 has been approved by CEN as a European Corrigendum without any modification.

This is a free page sample. Access the full version online.



I.S. EN ISO 11961:2008/AC:2009 INTERNATIONAL STANDARD ISO 11961:2008 TECHNICAL CORRIGENDUM 1

Published 2009-03-01

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Petroleum and natural gas industries — Steel drill pipe

TECHNICAL CORRIGENDUM 1

Industries du pétrole et du gaz naturel — Tiges de forage en acier

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 11961:2008 was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries,* Subcommittee SC 5, *Casing, tubing and drill pipe.*

Page 69

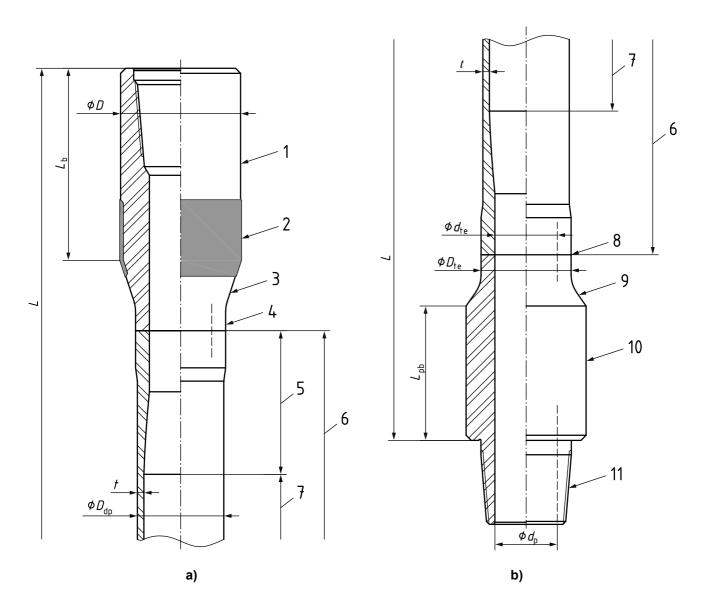
Replace Figure B.1 with the following figure, in which the line "L" in subfigure b) has been shortened such that it does not extend below the lower shoulder of the tool-joint pin and the arrows designating \varnothing d_p and \varnothing d_{te} have been modified.

ICS 75.180.10; 77.140.75

Ref. No. ISO 11961:2008/Cor.1:2009(E)

I.S. EN ISO 11961:2008/AC:2009

ISO 11961:2008/Cor.1:2009(E)



Key

- 1 tool-joint box
- 2 hard banding (optional)
- 3 tapered elevator shoulder
- 4 drill-pipe weld neck
- 5 drill-pipe-body upset
- 6 drill-pipe-body

- 7 pipe body
- 8 friction weld
- 9 pin taper
- 10 tool-joint pin
- 11 rotary shouldered connection

NOTE See Tables A.1, A.2 or A.3 or Tables C.1, C.2 or C.3 and 6.2 for dimensional requirements.

Figure B.1 — Drill pipe



Irish Standard I.S. EN ISO 11961:2008

Petroleum and natural gas industries -Steel drill pipe (ISO 11961:2008)

© NSAI 2008

No copying without NSAI permission except as permitted by copyright law.

Incorporating amendments/corrigenda issued since publication:

This document replaces: I.S. EN ISO 11961:1997

This document is based on: EN ISO 11961:2008 EN ISO 11961:1996 Published: 1 November, 2008 15 August, 1997

This document was published under the authority of the NSAI and comes into effect on: 8 January, 2009 ICS number: 75.180.10 77.140.75

NSAI 1 Swift Square, Northwood, Santry Dublin 9

T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie Price Code: AC

Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD NORME EUROPÉENNE

EN ISO 11961

EUROPÄISCHE NORM

November 2008

ICS 75.180.10: 77.140.75

Supersedes EN ISO 11961:1996

English Version

Petroleum and natural gas industries - Steel drill pipe (ISO 11961:2008)

Industries du pétrole et du gaz naturel - Tiges de forage en acier (ISO 11961:2008)

Erdöl- und Erdgasindustrie - Stahlrohre zur Verwendung als Bohrrohre - Anforderungen (ISO 11961:2008)

This European Standard was approved by CEN on 18 October 2008.

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 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 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: rue de Stassart, 36 B-1050 Brussels

EN ISO 11961:2008 (E)

Contents	Page
Foreword	

EN ISO 11961:2008 (E)

Foreword

This document (EN ISO 11961:2008) has been prepared by Technical Committee ISO/TC 67 "Materials, equipment and offshore structures for petroleum 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 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 May 2009, and conflicting national standards shall be withdrawn at the latest by May 2009.

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.

This document supersedes EN ISO 11961:1996.

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.

Endorsement notice

The text of ISO 11961:2008 has been approved by CEN as a EN ISO 11961:2008 without any modification.

This is a free page sample. Access the full version online.

This is a free page sample. Access the full version online.

I.S. EN ISO 11961:2008 INTERNATIONAL STANDARD

ISO 11961

Second edition 2008-11-01

Petroleum and natural gas industries — Steel drill pipe

Industries du pétrole et du gaz naturel — Tiges de forage en acier



ISO 11961:2008(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.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2008

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

Contents

Page

Forew	/ord	v
Introd	luction	vi
1	Scope	1
2	Conformance	
2.1	Dual citing of normative references	
2.2	Units of measurement	2
3	Normative references	2
4	Terms, definitions, symbols and abbreviated terms	4
4.1	Terms and definitions	
4.2	Symbols and abbreviated terms	
5	Information to be supplied when placing orders for drill-pipe	
_	Requirements for drill-pipe	
6 6.1	GeneralGeneral	11
6.2	Dimensions, masses and connections	
6.2 6.3	Material requirements	
6.4	Process of manufacture for drill-pipe	
6.5	Traceability	
6.6	Inspection and testing — General	
6.7	Testing of welds	
6.8	Tensile test	
6.9	Hardness test	
6.10	Charpy V-notch impact test	
6.11	Transverse side-bend test	
6.12	Imperfections and defects in drill-pipe	
6.13	Visual inspection of the drill-pipe weld zone	
6.14	Non-destructive examination of the weld zone	
6.15	Marking of drill-pipe	
6.16	Minimum facility requirements for drill-pipe manufacturers	
6.17	Documentation requirements of drill-pipe	
-	Requirements for drill-pipe body	
7 7.1	Information to be supplied when placing orders for drill-pipe bodies	
7.1 7.2	Dimensional and mass requirements	
7.2	Material requirements	
7.3 7.4	Process of manufacture	
7. 4 7.5	Traceability	
7.5 7.6	Inspection and testing — General	_
7.7	Testing of chemical composition	
7.8	Tensile tests	
7.9	Charpy V-notch impact tests	
7.10	Drill-pipe-body wall thickness	
7.11	Drill-pipe-body length	
7.12	Internal upset	
7.13	Internal profile	
7.14	Straightness	
7.15	Upset alignment	
7.16	Mass determination	
7.17	Imperfections and defects of drill-pipe body	
7.18	Visual inspection of drill-pipe body	

ISO 11961:2008(E)

7.19	Non-destructive examination	34
7.20	Marking	
7.21	Minimum facility requirements for drill-pipe-body manufacturer	39
7.22	Documentation requirements	39
8	Requirements for tool joints	40
8.1	Information to be supplied when placing orders for tool joints	40
8.2	Dimensional requirements	
8.3	Material requirements	41
8.4	Process of manufacture	
8.5	Traceability	
8.6	Inspection and testing — General	
8.7	Testing of chemical composition	
8.8	Tensile tests	
8.9	Hardness tests	
8.10	Charpy V-notch impact tests	
8.11	Imperfections and defects	
8.12	Non-destructive examination	
8.13	Marking	
8.14	Minimum facility requirements for tool-joint manufacturers	
8.15	Documentation requirements for tool joints	
Annex	A (normative) Tables in SI units	51
Annex	B (normative) Figures in SI (USC) units	69
Annex	C (normative) Tables in USC units	83
Annex	D (normative) Purchaser inspection	101
Annex	E (informative) Supplementary requirements	102
Annex	F (informative) Procedures used to convert from USC units to SI units for drill-pipe	105
Annex	G (normative) Product specification levels	109
Annex	H (informative) API monogram	111
Biblio	graphy	112
	·	

ISO 11961:2008(E)

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 11961 was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, Subcommittee SC 5, Casing, tubing and drill pipe.

This second edition cancels and replaces the first edition (ISO 11961:1996), which has been extensively technically revised.

It is the intention of ISO/TC 67 that either this edition or the previous edition of ISO 11961 be applicable, at the option of the purchaser (as defined in 4.1.31), for a period of six months from the first day of the calendar quarter immediately following the date of publication of this edition, after which period the previous edition will no longer be applicable.

ISO 11961:2008(E)

Introduction

This International Standard is based on API Spec 5D and API Spec 7.

Users of this International Standard should be aware that further or differing requirements may be needed for individual applications. This International Standard is not intended to inhibit a vendor from offering, or the purchaser from accepting, alternative equipment or engineering solutions for the individual application. This may be particularly applicable where there is innovative or developing technology. Where an alternative is offered, the vendor should identify any variations from this International Standard and provide details.

This International Standard includes provisions of various natures. These are identified by the use of certain verbal forms:

- a) SHALL is used to indicate that a provision is MANDATORY;
- b) SHOULD is used to indicate that a provision is not mandatory, but RECOMMENDED as good practice;
- c) MAY is used to indicate that a provision is OPTIONAL.

Petroleum and natural gas industries — Steel drill pipe

1 Scope

This International Standard specifies the technical delivery conditions for steel drill-pipes with upset pipe-body ends and weld-on tool joints for use in drilling and production operations in petroleum and natural gas industries for three product specification levels (PSL-1, PSL-2 and PSL-3). The requirements for PSL-1 form the basis of this International Standard. The requirements that define different levels of standard technical requirements for PSL-2 and PSL-3 are in Annex G.

This International Standard covers the following grades of drill-pipe:

- grade E drill-pipe;
- high-strength grades of drill-pipe, grades X, G and S.

A typical drill-pipe configuration is given, showing main elements and lengths (see Figure B.1). The main dimensions and masses of the grades of drill-pipe are given in both SI units (see Table A.1) and in USC units (see Table C.1).

This International Standard can also be used for drill-pipe with tool joints not specified by ISO or API standards.

By agreement between purchaser and manufacturer, this International Standard can also be applied to other drill-pipe body and/or tool-joint dimensions. This International Standard lists supplementary requirements that can optionally be agreed between purchaser and manufacturer, for testing, performance verification and non-destructive examination (see Annex E).

This International Standard does not consider performance properties.

NOTE 1 In this International Standard, drill-pipe is designated by label 1, label 2, grade of material (E, X, G and S), upset type and type of rotary shouldered connection. Designations are used for the purpose of identification in ordering.

NOTE 2 Reference can be made to ISO 10424-2 or API Spec 7-2 for the detailed requirements for the threading of drill-pipe tool joints.

NOTE 3 Reference can be made to API RP 7G for the performance properties of the drill-pipe.

2 Conformance

2.1 Dual citing of normative references

In the interests of world-wide application of this International Standard, Technical Committee ISO/TC 67 has decided, after detailed technical analysis, that certain of the normative documents listed in Clause 3 and prepared by ISO/TC 67 or another ISO Technical Committee are interchangeable in the context of the relevant requirement with the relevant document prepared by the American Petroleum Institute (API), the American Society for Testing and Materials (ASTM) and the American National Standards Institute (ANSI). These latter documents are cited in the running text following the ISO reference and preceded by "or", for example "ISO XXXX or API YYYY". Application of an alternative normative document cited in this manner will lead to technical results different from the use of the preceding ISO reference. However, both results are acceptable and these documents are thus considered interchangeable in practice.



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation