

Petroleum and natural gas industries — Cements and materials for well cementing —

Part 5: Determination of shrinkage and expansion of well cement formulations at atmospheric pressure

The European Standard EN ISO 10426-5:2005 has the status of a
British Standard

ICS 91.100.10; 75.020

National foreword

This British Standard is the official English language version of EN ISO 10426-5:2005. It is identical with ISO 10426-5:2004.

The UK participation in its preparation was entrusted by Technical Committee PSE/17, Materials and equipment for petroleum, petrochemical and natural gas industries, to Subcommittee PSE/17/-/3, Drilling and completion fluids and well cements, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN ISO title page, the EN ISO foreword page, the ISO title page, pages ii to v, a blank page, pages 1 to 13 and a back cover.

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English Version

Petroleum and natural gas industries - Cements and materials
for well cementing - Part 5: Determination of shrinkage and
expansion of well cement formulations at atmospheric pressure
(ISO 10426-5:2004)

Industries du pétrole et du gaz naturel - Ciments et
matériaux pour la cimentation des puits - Partie 5:
Détermination du retrait et de l'expansion à la pression
atmosphérique des formulations de ciments pour puits (ISO
10426-5:2004)

Erdöl- und Erdgasindustrie - Zemente und Materialien für
die Zementation von Tiefbohrungen - Teil 5: Bestimmung
der Schrumpfung und Quellung von Bohrloch-
Zementmischungen bei atmosphärischem Druck (ISO
10426-5:2004)

This European Standard was approved by CEN on 30 September 2005.

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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.

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Foreword

The text of ISO 10426-5:2004 has been prepared by Technical Committee ISO/TC 67 "Materials, equipment and offshore structures for petroleum and natural gas industries" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 10426-5:2005 by 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 April 2006, and conflicting national standards shall be withdrawn at the latest by April 2006.

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 10426-5:2004 has been approved by CEN as EN ISO 10426-5:2005 without any modifications.

INTERNATIONAL STANDARD

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Petroleum and natural gas industries — Cements and materials for well cementing —

Part 5: Determination of shrinkage and expansion of well cement formulations at atmospheric pressure

*Industries du pétrole et du gaz naturel — Ciments et matériaux pour
la cimentation des puits —*

*Partie 5: Détermination du retrait et de l'expansion à la pression
atmosphérique des formulations de ciments pour puits*



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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.

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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.

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ISO 10426-5 was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, Subcommittee SC 3, *Drilling and completion fluids, and well cements*.

ISO 10426 consists of the following parts, under the general title *Petroleum and natural gas industries — Cements and materials for well cementing*:

- *Part 1: Specification*
- *Part 2: Testing of well cements*
- *Part 3: Testing of deepwater well cement formulations*
- *Part 4: Preparation and testing of foamed cement slurries at atmospheric pressure*
- *Part 5: Determination of shrinkage and expansion of well cement formulations at atmospheric pressure*