

Petroleum and natural gas industries — Materials for use in H₂S-containing environments in oil and gas production

**Part 1: General principles for selection
of cracking-resistant materials (ISO
15156-1:2009)**

ICS 75.180.01

National foreword

This British Standard is the UK implementation of EN ISO 15156-1:2009. It supersedes BS EN ISO 15156-1:2002 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PSE/17/-/7, UK experts in ISO TC 67 Working Groups.

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

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(ISO 15156-1:2009)

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Erdöl- und Erdgasindustrie - Werkstoffe für den Einsatz in H₂S-haltiger Umgebung bei der Öl- und Gasgewinnung - Teil 1: Allgemeine Grundlagen für die Auswahl von gegen Rissbildung beständigen Werkstoffen (ISO 15156-1:2009)

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Foreword

This document (EN ISO 15156-1:2009) 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 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of an identical text or by endorsement, at the latest by April 2010, and conflicting national standards shall be withdrawn at the latest by April 2010.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.

This document supersedes EN ISO 15156-1:2001.

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Endorsement notice

The text of ISO 15156-1:2009 has been approved by CEN as a EN ISO 15156-1:2009 without any modification.

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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.

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.

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ISO 15156-1 was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*.

This second edition cancels and replaces the first edition (ISO 15156-1:2001), of which it constitutes a minor revision, specifically by the following:

- inclusion of changes to Table 1 in line with the version shown in ISO 15156-2 and ISO 15156-3;
- inclusion of changes to Clause 5 to make clearer the roles of those involved in the selection and supply and use of materials;
- replacement of the term “pre-qualified material”.

ISO 15156 consists of the following parts, under the general title *Petroleum and natural gas industries — Materials for use in H₂S-containing environments in oil and gas production*:

- *Part 1: General principles for selection of cracking-resistant materials*
- *Part 2: Cracking-resistant carbon and low-alloy steels, and the use of cast irons*
- *Part 3: Cracking-resistant CRAs (corrosion-resistant alloys) and other alloys*