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Standards

Irish Standard
I.S. EN ISO 20312:2011

Petroleum and natural gas industries - Design and operating limits of drill strings with aluminium alloy components (ISO 20312:2011)

I.S. EN ISO 20312:2011

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**Petroleum and natural gas industries - Design and operating
limits of drill strings with aluminium alloy components (ISO
20312:2011)**

Industries du pétrole et du gaz naturel - Conception et
limites de fonctionnement des garnitures de forage en
alliage d'aluminium (ISO 20312:2011)

Erdöl- und Erdgasindustrie - Auslegung und
Einsatzgrenzen von Bohrsträngen aus Aluminium-
Bohrgestängen (ISO 20312:2011)

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Foreword

This document (EN ISO 20312:2011) 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of an identical text or by endorsement, at the latest by April 2012, and conflicting national standards shall be withdrawn at the latest by April 2012.

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STANDARD**

**ISO
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2011-10-15

**Petroleum and natural gas industries —
Design and operating limits of drill
strings with aluminium alloy components**

*Industries du pétrole et du gaz naturel — Conception et limites de
fonctionnement des garnitures de forage en alliage d'aluminium*

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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 20312 was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*.

Introduction

The function of this International Standard is to define operating limits of aluminium drill pipes and recommend design criteria for the drill stem containing such aluminium drill pipes. This International Standard contains formulas and figures to aid in the design and selection of equipment to meet a specific drilling condition.

In this International Standard, data are expressed in the International System of units (SI).

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

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

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