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Petroleum and natural gas industries — Rotary drilling equipment —

Part 1: Rotary drill stem elements

*Industries du pétrole et du gaz naturel — Équipements de forage
rotary —*

Partie 1: Éléments de forage rotary



Reference number
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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.

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 10424-1 was prepared by Technical Committee ISO/TC 67, *Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries*, Subcommittee SC 4, *Drilling and production equipment*.

ISO 10424 consists of the following parts, under the general title *Petroleum and natural gas industries — Rotary drilling equipment*:

- *Part 1: Rotary drill stem elements*
- *Part 2: Threading and gauging of rotary shouldered thread connections*

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Introduction

The function of this part of ISO 10424 is to define the design and the mechanical properties of the material required for rotary drill stem elements. It also defines the testing required to verify compliance with these requirements. As rotary drill stem elements are very mobile, moving from rig to rig, design control is an important element required to ensure the interchangeability and performance of product manufactured by different sources.

A major portion of this part of ISO 10424 is based upon API Spec 7, 40th edition, November 2001. However, API Spec 7 does not define the nondestructive testing requirements of materials used to manufacture the drill stem components covered by this part of ISO 10424. This part of ISO 10424 does address these requirements.

Users of this part of ISO 10424 should be aware that further or differing requirements may be needed for individual applications. This part of ISO 10424 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 part of ISO 10424 and provide details.

In this part of ISO 10424, certain ISO and non-ISO standards provide the same technical result for a particular provision, however there is a market need to retain the traditional non-ISO reference.

In the running text the provision is written in the form "..... in accordance with ISO xxx.

NOTE For the purposes of this provision, non-ISO Ref yyy is equivalent to ISO xxx."

Application of a non-ISO reference cited in this manner will lead to the same results as the use of the preceding ISO reference. These documents are thus considered interchangeable in practice. In recognition of the migration of global standardization towards the use of ISO standards, it is intended that references to these alternative documents be removed at the time of the first full revision of this part of ISO 10424.