

SLOVENSKI STANDARD SIST EN ISO 13500:2009/A1:2014

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Industrija za predelavo nafte in zemeljskega plina - Materiali za vrtalne tekočine -Specifikacije in preskusi - Dopolnilo 1: Barit 4.10 (ISO 13500:2008/AMD 1:2010)

Petroleum and natural gas industries - Drilling fluid materials - Specifications and tests -Amendment 1: Barite 4,1 (ISO 13500:2008/AMD 1:2010)

Erdöl- und Erdgasindustrie - Bohrspülungen - Spezifikationen und Prüfungen - Änderung A1: Barite 4.10 (ISO 13500:2008/AMD 12010) D PREVIEW

Industries du pétrole et du gaz naturel - Produits pour fluides de forage - Spécifications et essais - Amendement 1: Baryte 4,1 (ISO 13500:2008/AMD 1:2010)

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ICS:

75.180.10 Oprema za raziskovanje in odkopavanje

Exploratory and extraction equipment

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 13500:2008/A1

December 2010

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English Version

Petroleum and natural gas industries - Drilling fluid materials -Specifications and tests - Amendment 1: Barite 4,1 (ISO 13500:2008/AMD 1:2010)

Industries du pétrole et du gaz naturel - Produits pour fluides de forage - Spécifications et essais - Amendement 1: Baryte 4,1 (ISO 13500:2008/AMD 1:2010) Erdöl- und Erdgasindustrie - Bohrspülungen -Spezifikationen und Prüfungen - Änderung A1: Barite 4.10 (ISO 13500:2008/AMD 1:2010)

This amendment A1 modifies the European Standard EN ISO 13500:2008; it was approved by CEN on 13 November 2010.

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

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EN ISO 13500:2008/A1:2010 (E)

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Foreword

This document (EN ISO 13500:2008/A1:2010) 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 June 2011, and conflicting national standards shall be withdrawn at the latest by June 2011.

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The text of ISO 13500:2008/A1:2010 has been approved by CEN as a EN ISO 13500:2008/A1:2010 without any modification.

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INTERNATIONAL STANDARD

ISO 13500

Third edition 2008-11-01

AMENDMENT 1 2010-12-01

Petroleum and natural gas industries — Drilling fluid materials — Specifications and tests

AMENDMENT 1: Barite 4,1

iTeh ST Industries du pétrole et du gaz naturel - Produits pour fluides de forage - Spécifications et essais

(STAMENDEMENT 1: Baryte 4,1)



ISO 13500:2008/Amd.1:2010(E)

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Foreword

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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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Amendment 1 to ISO 13500:2008 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. NDARD PREVIEW

Amendment 1 to ISO 13500:2008¹ covers the physical properties and testing of the newly available drilling fluid product, Barite 4,1. It constitutes an alternative to the specifications of Clause 7²), which cover the physical properties and testing of Barite, and is not intended to replace Clause 7.

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¹⁾ Amendment 1 to ISO 13500:2008 also constitutes Amendment 1 to API Specification 13A.

²⁾ ISO 13500:2008, Clause 7, is equivalent to API Specification 13A, Section 7.

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Petroleum and natural gas industries — Drilling fluid materials — Specifications and tests

AMENDMENT 1: Barite 4,1

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Add the following new clause immediately after Subclause 19.8.3.

20 Barite 4,1

20.1 Principle

20.1.1 Drilling grade barite is produced from commercial barium sulfate-containing ores. The manufacturer shall retain certificates of analysis or similar documentation on these commercial barium sulfate ores. It may be produced from a single ore or a blend of ores and may be a straight-mined product or processed by beneficiation methods, i.e. washing, tabling, jigging, or flotation. It may contain accessory minerals other than the barium sulfate (BaSO₄) mineral. Because of mineral impurities, commercial barite may vary in colour from off-white to grey to red or brown. Common accessory minerals are silicates such as quartz and chert, carbonate compounds such as siderite and dolomite, and metallic oxide and sulfide compounds. Although these minerals are normally insoluble, they can, under certain conditions, react with other components in some types of drilling fluids and cause adverse changes in the drilling fluid properties. (See Annex A for more details.) 1964590c7502/sist-en-iso-13500-2009-a1-2014

20.1.2 Drilling grade barium sulfate meeting the Barite 4,1 physical and chemical specifications listed in Table 19 is not intended to meet the requirements of performance tests described in ISO and API publications. Additionally, it is not intended to be used as a reference or calibration material as specified in ISO and API publications.

20.1.3 End users should be aware that the material described in this clause has a lower density than Barite as specified in Clause 7. Drilling fluid formulations should be developed to accommodate this lower density material. Maximum practical drilling fluid density for specific formulations may be lower than attainable with Barite as specified in Clause 7.

20.1.4 End users should review fluid engineering calculations to determine where density differences between Barite 4,1, as specified in this clause, and Barite, as specified in Clause 7, will require revisions to these calculations.

20.1.5 Barite 4,1 shall be deemed to meet the requirements of this International Standard if a composite sample representing no more than one day's production conforms to the chemical and physical specifications of Table 19, represents the product produced, and is controlled by the manufacturer.