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Interested committees:

Title: Draft BS EN ISO 13503-8 Oil and gas industries including lower carbon energy - Completion fluids and materials. Part 8: Measurement of properties of coated proppants used in hydraulic fracturing.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

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Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT International Standard

ISO/DIS 13503-8

Oil and gas industries including lower carbon energy — Completion fluids and materials —

Part 8: Measurement of properties of coated proppants used in hydraulic fracturing

ICS: 75.100

ISO/TC 67/SC 3

Secretariat: **UNI**

Voting begins on:
2024-05-20

Voting terminates on:
2024-08-12

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 67, *Oil and gas industries including lower carbon energy*, Subcommittee SC 3, *Drilling and completion fluids, well cements and treatment fluids*.

A list of all parts in the ISO 13503 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

ISO 13503-8 will be used together with ISO 13503-2^[1] and ISO 13503-5.^[2]

The procedures have been developed to improve the quality of coated proppants delivered to the well site. They are for use in evaluating certain physical properties of the coated proppants used in hydraulic fracturing operation. These tests should enable users to compare the physical characteristics of various proppants tested under the described conditions and to select materials useful for hydraulic fracturing operation.

The procedures described in ISO 13503-8 are not intended to prevent the development of new standards or technologies, and improvements on materials or operating procedures. Qualified engineering analysis and evaluation are necessary to specific application.

In ISO 13503-8, where practical, USC (United States Customary) units are included in parentheses.

[Annex A](#), [Annex B](#), [Annex C](#) and Annex D of ISO 13503-8 are for information only.

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Oil and gas industries including lower carbon energy — Completion fluids and materials —

Part 8: Measurement of properties of coated proppants used in hydraulic fracturing

1 Scope

This document provides standard test procedures for evaluating coated proppants used in hydraulic fracturing operation.

Note that ISO 13503-8 is only available for evaluating the effectiveness of coated proppants. For sieve analysis, mean diameter, roundness, sphericity, turbidity, acid solubility, bulk density, absolute density, proppant crush-resistance, and loss on ignition of resin-coated proppant, please refer to ISO 13503-2, and conductivity of proppants, refer to ISO 13503-5.

The purpose of ISO 13503-8 is to provide a consistent methodology for tests performed on coated proppants used in hydraulic fracturing operation.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3310-1, *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1 coated proppants

Coated proppants are solid particles used in hydraulic fracturing that are coated with a layer of resin or other material.

3.2 precured coated proppants

Precured coated proppants are solid particles that can be cured or hardened during the manufacturing process.

3.3 curable coated proppants

Curable coated proppants are solid particles that can be cured or hardened after being placed in the fracture.