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Petroleum and natural gas industries — Completion fluids and materials —

Part 3: Testing of heavy brines

*Industries du pétrole et du gaz naturel — Fluides et matériaux de
complétion —*

Partie 3: Essais de saumures denses



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Contents

Page

Foreword.....	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviated terms	2
3.1 Terms and definitions.....	2
3.2 Symbols and abbreviated terms	2
4 Requirements	4
4.1 Quality control instructions	4
4.2 Records retention	4
5 Calibration of equipment	4
5.1 General requirements.....	4
5.2 Reagents and materials for calibration	4
5.3 General requirements for calibration of particular apparatus	5
5.4 Frequency of calibration verification.....	5
5.5 Calibration verification	6
6 Density	7
6.1 General.....	7
6.2 Apparatus	9
6.3 Density measurement by hydrometer	10
6.4 Density correction to 21 °C (70 °F).....	11
6.5 Calculation of density in units other than kg/m ³	13
6.6 Calculation for pressure and temperature compensation.....	14
7 Crystallization temperature	16
7.1 Principle	16
7.2 Apparatus	20
7.3 Determination of crystallization point	21
7.4 Calculation of crystallization point	21
8 Brine clarity	22
8.1 Principle.....	22
8.2 Apparatus	22
8.3 Determination of brine clarity.....	23
9 Solids evaluation by gravimetric procedures	23
9.1 Principle	23
9.2 Apparatus	24
9.3 Preparation of glass-fibre filter disk	24
9.4 Selection of sample volume	25
9.5 Determination of total suspended solids	25
9.6 Calculation of total suspended solids	26
9.7 Calculation of precision and bias	26
9.8 Determination of volatile and non-volatile solids.....	26
9.9 Calculation of non-volatile and volatile solids	27
10 pH	27
10.1 Principle	27
10.2 Reagents and materials	28
10.3 Apparatus	28
10.4 Measurement of pH.....	29

This is a preview of "ISO 13503-3:2005". [Click here to purchase the full version from the ANSI store.](#)

10.5	Precision statement	30
10.6	Care of the electrode	30
11	Iron contamination	30
11.1	Principle	30
11.2	Reagents and materials	31
11.3	Apparatus.....	31
11.4	Preparation of colorimetric standards	32
11.5	Measurement of iron contamination	32
11.6	Precision statement	33
12	Daily completion fluid report	33
12.1	Principle	33
12.2	Well identification, geometry and zone data	34
12.3	System properties	34
12.4	Fluids accounting	35
12.5	Cost accounting	35
12.6	Daily commentary	35
12.7	Vendor representative identification.....	35
Annex A (informative)	Completion fluids report form.....	36
Annex B (informative)	Gas hydrates.....	37
Annex C (informative)	Buffering capacity of brines.....	38
Annex D (informative)	Pressure crystallization of brines.....	39
Annex E (informative)	Brine viscosity	40
Annex F (informative)	Principle of corrosion testing.....	41
Bibliography	43

This is a preview of "ISO 13503-3:2005". [Click here to purchase the full version from the ANSI store.](#)

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 13503-3 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*.

ISO 13503 consists of the following parts, under the general title *Petroleum and natural gas industries — Completion fluids and materials*:

- *Part 1: Measurement of viscous properties of completion fluids*
- *Part 3: Testing of heavy brines*

The following parts are under preparation:

- *Part 2: Measurement of properties of proppants used in hydraulic fracturing and gravel packing operations*
- *Part 4: Procedure for measuring stimulation and gravel-pack fluid leakoff under static conditions*
- *Part 5: Procedure for measuring the long-term conductivity of proppants*

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Introduction

This part of ISO 13503 covers heavy brines commonly used in petroleum and natural gas completion, workover and drill-in fluids. These brines can be purchased or rented from multiple sources, and are available worldwide. No single source or limited source of supply is included, either by inference or reference.

Annexes A to F are given for information.