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Interested committees:

Title: Draft BS ISO 20289 Surface chemical analysis — Total reflection X-ray fluorescence analysis of water.

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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.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British 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 20289

Surface chemical analysis — Total reflection X-ray fluorescence analysis of water

Analyse chimique des surfaces — Analyse par fluorescence de rayons X en réflexion totale d'eau

ICS: 71.040.40

ISO/TC 201/SC 10

Secretariat: JISC

Voting begins on:
2024-07-15

Voting terminates on:
2024-10-07

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Symbols and abbreviated terms	3
5 Safety	3
6 Interferences	3
7 Apparatus	3
7.1 General	3
7.2 Labware	3
7.3 Drying apparatus	4
8 Reagents, standards and materials	4
9 Sample preparation	5
9.1 Environment	5
9.2 Sample	5
9.3 Specimen	5
9.4 Sample carrier	6
9.5 Trials/replicates	6
9.6 Effect of residue mass, size and its position	6
10 Procedure	7
10.1 General	7
10.2 Instrument calibration	7
10.3 Detection limit	7
10.4 TXRF measurements	7
10.5 Spectra fitting	8
10.6 Unknown samples	8
11 Qualitative and quantitative analysis	8
11.1 Identification of elements	8
11.2 Quantification of elements	8
11.3 Calculations	9
11.4 Measurement uncertainty	9
12 Quality control	9
13 Precision and accuracy	9
14 Test report	10
Annex A (informative) Uncertainty in TXRF measurements	11
Annex B (informative) Validation of the method	14
Bibliography	18

Foreword

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This document was prepared by Technical Committee ISO/TC 201, *Surface Chemical Analysis*, Subcommittee SC 10, *X-ray Reflectometry (XRR) and X-ray Fluorescence (XRF) Analysis*.

Introduction

Total reflection X-ray fluorescence (TXRF) spectroscopy is a surface sensitive technique which can be used to obtain compositional information about different kinds of samples. ISO/TS 18507 provides the guidelines for the characterization of biological and environmental samples with TXRF.

TXRF is suitable for quantitative elemental analysis of liquid samples deposited as thin films on clean and well-polished reflectors, by means of internal standard calibration^{[1][2]}.

This document provides guidance and requirements for the quantitative elemental analysis of water by means of TXRF instrumentation.

