

Surface chemical analysis — Information formats

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National foreword

This British Standard reproduces verbatim ISO 14975:2000 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee CII/60, Surface chemical analysis, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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This British Standard, having been prepared under the direction of the Sector Committee for Materials and Chemicals, was published under the authority of the Standards Committee and comes into effect on 15 May 2001

Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to v, a blank page, pages 1 to 17 and a back cover.

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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 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 14975 was prepared by Technical Committee ISO/TC 201, *Surface chemical analysis*, Subcommittee SC 3, *Data management and treatment*.

Annexes A and B of this International Standard are for information only.

Introduction

ISO 14976 provides a digital data transfer format for communicating surface chemical analysis data. Since the importance of databases is increasing in many scientific fields, storage and manipulation of spectral data in databases have become necessary. The structure of ISO 14976 is suitable for communication, but database manipulation is quite different from data communication. Information additional to that contained in ISO 14976 is necessary to handle the data in the databases, so this International Standard proposes three formats which define information packages for (1) specimen information, (2) calibration information and (3) data processing information, which are important to manipulate spectral data in databases. The future compatibility of the format is essential. This format is designed to work with ISO 14976 so that software designed to read the latter will still function correctly with these information packages added. This International Standard, therefore, is supplementary to and compatible with ISO 14976.

The motivation behind the choices made in defining the textual form of the data files described in this International Standard are important. To make it easy for programmers to implement the format reliably in new software, aspects of the Microsoft Windows™ “.INI” file structure are followed. Most modern computers have facilities to read and write this format from a wide range of computer languages via the Windows Application Programming Interface™.

