

TECHNICAL REPORT

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**Information processing — Interchange practices
and test methods for unrecorded instrumentation
magnetic tape**



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) together form a system for worldwide standardization as a whole. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

The main task of a technical committee is to prepare International Standards but in exceptional circumstances, the publication of a technical report of one of the following types may be proposed:

- type 1, when the necessary support within the technical committee cannot be obtained for the publication of an International Standard, despite repeated efforts;
- type 2, when the subject is still under technical development requiring wider exposure;
- type 3, when a technical committee has collected data of a different kind from that which is normally published as an International Standard ("state of the art", for example).

Technical reports of types 1 and 2 are subject to review within three years of publication, to decide whether they can be transformed into International Standards. Technical reports of type 3 do not necessarily have to be reviewed until the data they provide are considered to be no longer valid or useful.

ISO/IEC/TR 6371, which is a technical report of type 2, was prepared by ISO/IEC JTC 1, *Information technology*.

Introduction

Draft International Standard ISO/DIS 6371 was distributed to ISO member bodies in August 1982 and was approved for issue as an International Standard.

During the preparation of the final text, however, it was found necessary to replace the existing test for surface electrical resistance and, moreover, amendments to the text were necessitated to ensure alignment with related International Standards which at that time were in the course of preparation.

Bearing in mind the need for this document, but also the amount of time that has elapsed since it was approved and the extent to which the original text has been modified, it is considered preferable to make the document available at the present time in the form of a type 2 ISO/IEC Technical Report. It is expected that within two to three years, it will be further revised with a view to its issue as an International Standard.

Withheld

Information processing — Interchange practices and test methods for unrecorded instrumentation magnetic tape

1 Scope

1.1 General

This Technical Report specifies the interchange requirements for longitudinally-orientated, unrecorded magnetic tape wound on reels or hubs designed for use in instrumentation-recording applications. Tapes for interchange shall be recorded and played back on equipment conforming to ISO 6068 and to the applicable instructions furnished by the equipment manufacturer.

ISO 6068 : 1985, *Information processing — Recording characteristics of instrumentation magnetic tape (including telemetry systems) — Interchange requirements*.

In case of conflicts between reference documents and this Technical Report, the Technical Report should prevail.

1.2 Archival tapes

It is recognized that archival interchange tapes, or those produced by systems in use prior to the publication of this Technical Report, may not meet the stringent requirements that follow. Users requiring exchange of standard tapes should verify that the planned interchange of data will be accomplished according to the following standards for tapes, reels, and recorder/reproducers: ISO 1858, ISO 1860, ISO 3802, ISO 6068, and this Technical Report.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Technical Report. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this Technical Report are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1184 : 1983, *Plastics — Determination of tensile properties of films*.

ISO 1858 : 1977, *Information processing — General purpose hubs and reels, with 76 mm (3 in) centrehole, for magnetic tape used in interchange instrumentation applications*.

ISO 1860 : 1986, *Information processing — Precision reels for magnetic tape used for interchange instrumentation applications*.

ISO 3802 : 1980, *Information processing — General purpose reels with 8 mm (5/16 in) centre hole for magnetic tape for interchange instrumentation applications*.