

საქართველოს სტანდარტი

სსკ: 35.240.15

მანქანით წაკითხვადი სამგზავრო დოკუმენტების (MRTD) და მათთან დაკავშირებული მოწყობილობების გამოცდის მეთოდები - ნაწილი 1: პასპორტის წიგნაკის (ხანმედეგობა) ფიზიკური გამოცდის მეთოდები

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**Test methods for machine readable
travel documents (MRTD) and
associated devices —**

Part 1:
**Physical test methods for passport
books (durability)**

*Méthodes d'essais pour documents de voyage lisibles par machine et
dispositifs associés —*

*Partie 1: Méthodes d'essais physiques pour livrets de passeport
(durabilité)*





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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. 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 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 document 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 and IEC 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 on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and security devices for personal identification*.

This second edition cancels and replaces the first edition (ISO/IEC 18745-1:2014), which has been technically revised.

The main changes compared to the previous edition are as follows:

- test definitions have been detailed;
- instructions to evaluate test results have been clarified;
- the definition of the foam to be used in [8.6.4](#) book bend stress method has been changed to enhance the accessibility to the foam needed;
- test sequences have been updated to create more realistic test results;
- references have been updated.

A list of all the parts in the ISO/IEC 18745 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

0.1 General

ICAO Doc 9303 provides the basic functional specification for Machine Readable Travel Documents (MRTDs) and, together with the Supplement, which is published from time to time, describes all relevant properties of MRTDs. Machine Readable Passports (MRPs) are a subset of all MRTDs. The publication of Part 1 of the 6th edition of Doc 9303 introduces the contactless integrated circuit to the MRP. Such a passport containing a contactless integrated circuit is commonly referred to as an e-Passport.

This document provides a set of instructions for the evaluation of MRPs which may incorporate contactless integrated circuits. This document is a companion to ICAO Doc 9303. It specifies the minimum criteria to be achieved in order to meet ICAO's expectations for durability of fully personalized MRPs. Therefore, by its existence, and endorsement by ICAO, this document implicitly defines additional requirements for passports above and beyond ICAO Doc 9303. Some of the tests described herein are also intended to serve as an instrument for the assessment of the ageing behaviour of the MRP and its components.

This document updates and replaces the document "ICAO Technical Report – Durability Of Machine Readable Passports" published by ICAO (International Civil Aviation Organization).

0.2 Future considerations

Where technologies or combinations of technologies are to be applied in an MRP, which are not covered by the test methods described below, it is recommended to define such test methods based on available methods described in ISO/IEC standards or any other accepted standards from other international standard organizations in cooperation with the suppliers of such technologies.

Today, there is no stable state of the art regarding the correlation between stress and ageing, neither for previously existing nor for oncoming types of MRPs. The tests that can be described at the present stage may contribute to improving such knowledge but need to be considered preliminary. It is important to notice that ultimately, reliable and predictably useful correlations can only be achieved by continuously comparing the ageing behaviour of documents in real use to the predictions made. Such predictions are based on assumptions that, in particular if novel and unusual technologies and components are used, they are in many cases unproven and preliminary in nature.

It is one of the aims of this document to help in the task of establishing sound correlations. This is done by providing tools for executing tests with comparable results for a multitude of acting parties. Comparable results are a prerequisite to encourage the execution of field surveys in quality related research and their use for a continuous improvement not only of this document but also of the quality of MRPs on a global basis.

0.3 Other uses for this document

The tests defined in this document may also be appropriate for other forms of MRTDs, however, they may require modification before use.

Where applicable, tests may be used to evaluate characteristics of non-personalized MRPs or materials used to make MRPs.

Type evaluation is usually a one-time exercise in the life cycle of a specific type of document. However the same test procedures may be useful for the proper definition of quality assurance procedures during the regular production of MRTDs. In the framework of the contractual relationship between a manufacturer and its customer(s) it is common practice to establish an expected quality level for the MRTDs in the delivery contract, and also to specify acceptance criteria for individual deliveries in executing the contract. On the other hand, it is good practice to leave it with the manufacturer to decide on the production quality measures to assure this quality level.

This document has been carefully designed to provide the user with a set of tools for evaluating MRPs, whether it be prototype evaluation, delivery acceptance or any other purpose.