

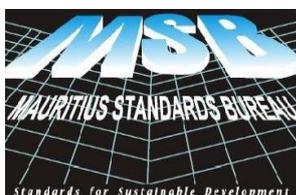
MAURITIAN
STANDARD

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21924-4:2017

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2020-01-24

**Protective equipment for
martial arts —
Part 4: Additional
requirements and test
methods for head protectors**

ICS 97.220.01; 13.340.01



**Mauritius Standards Bureau
Moka**

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National Foreword

This Mauritian Standard is identical with the International Standard **ISO 21924-4:2017**, *Protective equipment for martial arts — Part 4: Additional requirements and test methods for head protectors* published by the International Organization for Standardization (ISO). It was adopted by the Mauritius Standards Bureau on the recommendation of the **Textiles, Paper & Footwear Standards Committee** and approval of the **Standards Council** on **05 December 2019**. It was notified in the **Government Gazette** on **24 January 2020***.

For the purpose of this Standard the following changes should be made:

the 'decimal comma' should be replaced by 'decimal point'.

General notice no 103 of 2020



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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.

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 ISO documents 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 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/TC 83, *Sports and other recreational facilities and equipment*, Subcommittee SC 6, *Martial arts*.

A list of all parts in the ISO 21924 series can be found on the ISO website.

Introduction

Head protectors are an individual item of protective equipment to protect the front, the sides and the rear of the head in martial arts.

They are designed to provide a degree of safety in case of accidental contact during martial arts. Martial arts can be dangerous and severe blows to the head may cause serious injury even if the protector is fitted and used properly.

PREVIEW

PREVIEW

Protective equipment for martial arts —

Part 4: Additional requirements and test methods for head protectors

1 Scope

This document specifies additional requirements and test methods for head protectors without face protection used in unarmed martial arts, such as taekwondo, karate, kick-boxing and similar disciplines.

It also applies to head protectors used in boxing.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 21924-1:2017, *Protective equipment for martial arts — Part 1: General requirements and test methods*

EN 960, *Headforms for use in the testing of protective helmets*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 21924-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <http://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Requirements

4.1 General

The general requirements for head protectors shall be the same as those given in ISO 21924-1.

Head protectors shall be easy to put on and take off.

4.2 Openings

Head protectors shall be so designed that the ears have a connection to the environment to enable the wearer to hear as well as to prevent air pressure damage caused by blows on the ear.

The head protector may be pierced by openings that allow ventilation.

4.3 Mass

The maximum mass permitted shall vary with the head circumference. The relevant mass is specified in [Table 1](#).

Table 1 — Head circumference and mass of the head protector

Head circumference mm	<540	540 to 560	>560 to 580	>580
Mass g	max. 360	max. 380	max. 400	max. 420

4.4 Sizing

The manufacturer shall indicate in centimetres the range of head circumference of the user for which the head protector is designed.

4.5 Field of vision

When tested in accordance with [5.4](#), there shall be no occultation in the field of vision bounded by angles as follows (see [Figure 1](#)):

- horizontally: min 105° from the longitudinal vertical median plane to the left and right hand sides;
- upwards: min 25° from the reference plane;
- downwards: min 45° from the basic plane.

PREVIEW