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**ISO 3873**

## **Industrial protective helmets**

*Casques de protection pour l'industrie*

**Second edition  
2025-02**



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<b>Foreword</b> .....	<b>v</b>
<b>Introduction</b> .....	<b>vi</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Physical requirements</b> .....	<b>5</b>
4.1 Materials.....	5
4.2 General construction.....	5
4.3 Accessories and attachments.....	5
<b>5 Performance requirements</b> .....	<b>5</b>
5.1 Type I Mandatory requirements.....	5
5.1.1 Striker drop test.....	5
5.1.2 Resistance to penetration.....	6
5.1.3 Resistance to ignition.....	6
5.2 Type II Mandatory requirements.....	6
5.2.1 Impact energy attenuation.....	6
5.2.2 Resistance to penetration.....	6
5.2.3 Dynamic strength of the retention system.....	6
5.2.4 Dynamic stability.....	6
5.2.5 Resistance to ignition.....	6
5.2.6 Buckle release.....	6
5.3 Optional requirements.....	7
5.3.1 Low temperature tests.....	7
5.3.2 Artificial ageing.....	7
5.3.3 Electrical Performance.....	7
5.3.4 Enhanced resistance to penetration.....	7
5.3.5 Chin strap.....	8
<b>6 Test requirements</b> .....	<b>8</b>
6.1 Samples.....	8
6.2 Conditioning for testing.....	9
6.2.1 Conditioning cabinet.....	9
6.2.2 Pre-conditioning.....	9
6.2.3 Low temperature.....	9
6.2.4 High temperature.....	9
6.2.5 Wet.....	9
6.3 Test schedule.....	9
6.3.1 Type I helmet.....	9
6.3.2 Type II helmet.....	9
6.4 Headforms.....	10
6.4.1 Striker drop tests.....	10
6.4.2 Headform drop tests.....	10
6.5 Impact energy attenuation tests.....	11
6.5.1 Striker drop test.....	11
6.5.2 Headform drop test.....	11
6.6 Penetration test.....	14
6.6.1 Apparatus.....	14
6.6.2 Test procedure.....	15
6.7 Dynamic strength of the retention system.....	15
6.7.1 Principle.....	15
6.7.2 Apparatus.....	15
6.7.3 Test procedure.....	17
6.8 Dynamic stability.....	17
6.8.1 Principle.....	17

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6.9	Resistance to ignition.....	18
6.9.1	Principle.....	18
6.9.2	Apparatus.....	19
6.9.3	Test procedure.....	19
6.9.4	Report.....	19
6.10	Electrical insulation test.....	19
6.10.1	Apparatus.....	19
6.10.2	calibration.....	20
6.10.3	Test procedure.....	20
6.10.4	Report.....	20
<b>7</b>	<b>Marking.....</b>	<b>20</b>
7.1	Markings on the helmet.....	20
7.2	Additional information.....	20
<b>8</b>	<b>Instructions for use.....</b>	<b>21</b>
<b>Annex A (informative) Recommendations for the materials and construction of helmets.....</b>		<b>22</b>
<b>Annex B (informative) Recommended method of construction of wooden headforms.....</b>		<b>23</b>

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This document was prepared by Technical Committee ISO/TC 94, *Personal safety — Personal protective equipment*

This second edition cancels and replaces the first edition (ISO 3873:1977), which has been technically revised.

The main changes are as follows:

- Introduction of a Type II helmet that is intended to protect the front, side and rear of the wearer's head. Reflecting this change is the introduction of impact energy attenuation requirements, dynamic strength of the retention system and dynamic stability tests.
- Elimination of mandatory harness dimensions and clearances for Type I helmets. A Type I helmet could be constructed using a conventional harness system, but it could also be constructed using an impact energy attenuation liner.
- Introduction of resistance to ignition tests to replace the flame resistance requirements.

Future considerations:

- Impacts to the head that result in head angular motion (referred to as angled, tangential or oblique impacts) are one of the causes of brain injury. The revisions to the standard have not addressed directly the performance of systems intended to manage head angular motion. The introduction of a Type II helmet will offer some improvements in managing head angular motion with regards to the first edition of ISO 3873 because of the additional impact energy attenuation tests. At the time that second edition of ISO 3873 was developed, no test method was available that could be readily incorporated into this standard. In the future, when a suitable oblique impact test method and risk analysis are available, the ambition of this committee is to revise this document and include requirements for such a test.

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