
**Clothing and equipment for protection
against heat — Test method for convective
heat resistance using a hot air circulating
oven**

*Vêtements et équipement de protection contre la chaleur — Méthode
d'essai de la résistance à la chaleur de convection au moyen d'un four à
circulation d'air chaud*



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Printed in Switzerland

Foreword

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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 17493 was prepared by Technical Committee ISO/TC 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 43, *Protective clothing*.

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Clothing and equipment for protection against heat — Test method for convective heat resistance using a hot air circulating oven

1 Scope

This International Standard describes a test method for evaluating the heat resistance of protective clothing materials or items and equipment when exposed in a hot air circulating oven. The method is intended to evaluate physical changes in a material at a given exposure temperature. Materials are evaluated for visible changes or subjected to a material property measurement following heat exposure. This test method also enables the measurement of shrinkage that occurs as a result of the heat exposure.

Different procedures are provided depending on the type of the protective clothing material or item being tested.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 139:1973, *Textiles — Standard atmospheres for conditioning and testing*.

ISO 3759:1994, *Textiles — Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change*.

ISO 3873:1977, *Industrial safety helmets*.

ISO 4643:1992, *Moulded plastics footwear — Lined or unlined poly(vinyl chloride) boots for general industrial use — Specification*.

3 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

3.1

charring

formation of a carbonaceous residue when material is exposed to thermal energy

3.2

clothing

materials worn by a person, including textile and other sheet materials, accessories such as slide fasteners and hook and loop fasteners, bands, reflective tapes and small whole items such as gloves

3.3

embrittlement

formation of a brittle residue when material is exposed to thermal energy