

SINGAPORE STANDARD

Specification for personal eye-protectors

– Part 2 : Selection, use and maintenance



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Association of Singapore Marine Association
Baker Hughes
Ministry of Manpower
National University of Singapore
Singapore Contractors Association Limited
Total Petrochemicals South East Asia Pte Ltd
Uvex Safety Singapore Pte Ltd
Workplace Safety and Health Council

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Foreword

This Singapore Standard was prepared by a Working Group appointed by the Technical Committee for Personal Safety and Health under the purview of the General Engineering and Safety Standards Committee. It is a revision of SS 473-2 : 1999 – ‘Specification for personal eye-protectors, Part 2 : Selection, use and maintenance’.

The revised SS 473 comprises the following parts under the general title ‘Specification for personal eye-protectors’:

- Part 1: General requirements
- Part 2 : Selection, use and maintenance

The standard constitutes the second part of the Singapore Standard on personal eye-protectors. The revision is to bring the standard up-to-date with the latest applicable overseas standards and to ensure relevance to the current local legislation. It aims to specify and introduce to eye-protectors users a comprehensive eye protection programme to ensure good practices in selection, use and maintenance for personal eye-protectors.

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In preparing this specification, reference was made to the following publications:

1. AS/NZS 1336: 1997 Recommended practices for occupational eye protection
2. BS 7028 : 1999 Eye protection for industrial and other uses – Guidance on selection, use and maintenance
3. BS EN 166 : 2002 Personal eye-protection – Specifications
4. BS EN 169 : 2002 Personal eye-protection – Filters for welding and related techniques – Transmittance requirements and recommended use
5. BS EN 170 : 2002 Personal eye-protection – Ultraviolet filters – Transmittance requirements and recommended use
6. BS EN 171 : 2002 Personal eye-protection – Infrared filters – Transmittance requirements and recommended use
7. Workplace Safety and Health Act (2006)

Acknowledgement is made for the use of information from the above publications.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

NOTE

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions.*
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Specification for personal eye-protectors – Part 2 : Selection, use and maintenance

1 Scope

This Singapore Standard specifies functional requirements for the various types of personal eye-protectors used mainly in all workplaces. The eye protection covered in this standard includes the following hazards, individually or in combination. They are:

- (a) Mechanical and chemical hazards:
 - (1) Mechanical impacts;
 - (2) Molten metals and hot solids;
 - (3) Dust or powders;
 - (4) Liquid droplets and splashes;
 - (5) Vapours, fumes, gases.
- (b) Non-ionising optical radiation hazards:
 - (1) Ultraviolet radiation (UV) hazard;
 - (2) Infra-red radiation (IR) hazard;
 - (3) Combinations of the above
 - solar radiation hazard
 - UV, IR and visible light from welding.
- (c) Combinations of the above:
 - (1) Welding;
 - (2) Non-standard industrial optical radiation.

This Singapore Standard is not applicable to eye protection for sports, recreation, nuclear radiation, X-rays, laser beams and low-temperature infra-red radiation. It is also not applicable to sunglasses for general use or to fashion spectacles which are used principally as a part of costume or fancy dress.

2 Normative references

The following referenced documents are indispensable for the application of this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

SS 473, Part 1 Personal eye-protectors – General requirements