Australian/New Zealand Standard

Filters for eye protectors

Part 1: Filters for protection against radiation generated in welding and allied operations

[Defence Title allocated by Codification and Standardisation Authority: FILTERS FOR EYE PROTECTORS PART 1: FILTERS FOR PROTECTION AGAINST RADIATION GENERATED IN WELDING AND ALLIED OPERATIONS NATO Supply Classification 4240]

This Standard was prepared under a joint arrangement by Standards Australia and Standards New Zealand. It was approved for publication on behalf of the Council of Standards Australia on 6 August 1992 and on behalf of the Standards Council of New Zealand on 5 June 1992. It was published on 16 November 1992.

The following organizations are represented on the Committees responsible for this Standard:

Standards Australia Committee SF/6, Eye Protection

Australian and New Zealand Society of Occupational Medicine

Australian Chamber of Commerce

Australian Medical Association

Australian Optometrical Association

Australian Welding Institute

Bureau of Steel Manufacturers of Australia

Confederation of Australian Industry

Department of Defence

Department of Industrial Affairs, Qld

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This Standard was issued in Australia in draft form for comment as DR 91106 and in New Zealand as DZ 5817.

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In Australia
First published in part as AS B91—1951.
Revised and redesignated AS Z45—1967.
Revised and redesignated AS 1338—1974.
Revised and redesignated in part as
AS 1338.1—1981.

In New Zealand First published as NZS 5817.1:1983.

AS 1338.1—1981 and NZS 5817.1:1983 revised, amalgamated and designated as Joint Standard AS/NZS 1338.1:1992.

Incorporating: Amdt 1— 1994

PUBLISHED JOINTLY BY:

STANDARDS AUSTRALIA 1 The Crescent, Homebush NSW 2140 Australia

STANDARDS NEW ZEALAND Level 10, Standards House, 155 The Terrace, Wellington 6001 New Zealand

2

PREFACE

This Standard was prepared by the Standards Australia Committee on Eye Protection to supersede AS 1338 Part 1—1981 and NZS 5817.1:1983. It is issued as a joint Standard under the terms of the Active Cooperation Agreement between Standards Australia and Standards New Zealand with the objective of reducing technical barriers to trade between the two nations. It incorporates recommended technological and editorial amendments received in response to requests for the review of AS 1338.1/NZS 5817.1, and includes specific requirements for electrically controlled welding filters.

Each part of AS/NZS 1338 prescribes filters for a particular application, the requirements for these filters being substantially aligned with ISO (International Organization for Standardization) requirements. Acknowledgment is made of the assistance received therefrom.

Research undertaken by a number of national and international organizations tends to indicate that less importance may be assigned to the occurrence of infra-red radiation in welding and allied operations, therefore, the limits for maximum infra-red transmission in this Standard have been brought into closer alignment with the requirements in ANZ1 Z87.1—1989 Practice for occupational and educational eye and face protection.

Appendix E lists a number of definitions, symbols and terms adopted from the following publications:

AS

1852 International electrotechnical vocabulary

1852(845) Chapter 845: *Lighting*

2900 Quantities, units, and symbols

2900.6 Part 6: Quantities and units of light and related electromagnetic radiations

ISO

4007 Personal eye-protectors—Vocabulary

This Standard does not apply to filters for eye protectors for protection against laser beams or the microwave portions of the electromagnetic spectrum.

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3

CONTENTS

		Page
FORE	WORD	4
SECT	ION 1 SCOPE AND GENERAL	
1.2 1.3	SCOPE REFERENCED DOCUMENTS DEFINITIONS DESIGNATION OF FILTERS	5
SECT	TON 2 GENERAL REQUIREMENTS	
2.2 2.3	FILTERS FOR GAS WELDING	7 8 12 12
SECT	TON 3 TESTING	
	GENERAL	13 13
SECT	TON 4 MARKING	
4.2	MARKING OF FILTERS	14
APPE	NDICES	
A	GUIDANCE ON SELECTION OF FILTERS FOR PROTECTION AGAINST OPTICAL RADIATION GENERATED DURING WELDING AND ALLIED OPERATIONS	15
В	GLOSSARY OF DEFINITIONS, SYMBOLS AND TERMS USED FOR THE SPECIFICATION AND EVALUATION OF FILTERS FOR INDUSTRIAL EYE PROTECTORS	17
C	DETERMINATION OF PERMANENCE OF FILTERS	20
D	DETERMINATION OF TRANSMITTANCES	21
Е	DETERMINATION OF THE RESPONSE TIME AND HOLDING TIME OF ACTIVE WELDING FILTERS	22



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