

Australian Standard[®]

**Clothing for protection against
hazardous chemicals**

**Part 2: Limited protection against
specific chemicals**

This Australian Standard was prepared by Committee SF/4, Protective Clothing. It was approved on behalf of the Council of Standards Australia on 22 December 1989 and published on 7 May 1990.

The following interests are represented on Committee SF/4:

Australian Assembly of Fire Authorities
Australian Wool Corporation
Bureau of Steel Manufacturers of Australia
Confederation of Australian Industry
Confederation of Australian Motor Sport
Country Fire Authority
Department of Defence
Department of Employment, Vocational Education, Training and Industrial
Relations, Qld
Department of Labour, Victoria
Department of Occupational Health, Safety and Welfare, W.A.
National Occupational Health and Safety Commission (Worksafe Australia)
Safety Institute of Australia
The Workcover Authority, N.S.W.
Wool Textile Manufacturers of Australia

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PREFACE

This Standard was prepared by Standards Australia Committee on Protective Clothing under the supervision of the Safety Standards Board. It sets out requirements for protective clothing intended to provide limited protection against penetration by specific liquid chemicals. Such clothing is generally worn by personnel involved in the handling and transport of chemicals either where liquid chemicals in droplet form are to be protected against or where more substantial splashes of a chemical are sustained but the clothing is able to be removed almost immediately. The technical content is largely based on the requirements for protective clothing given in ISO 6530, *Clothing for limited protection against dangerous liquid chemicals—Resistance to penetration—Marking*.

This Standard is one of a proposed series of Standards covering requirements for materials construction, performance and use of chemical protective clothing. When complete, the series will consist of the following Standards:

AS

- 3765 *Clothing for protection against hazardous chemicals*
 3765.1 Part 1: *Protection against general or specific chemicals*
 3765.2 Part 2: *Limited protection against specific chemicals*
 3765.3 Part 3: *Selection, care, and use.*

Since this Standard concerns clothing which, by its limited ability to repel liquids, provides limited protection against hazardous chemicals, such clothing should be used only where the risks involved are limited, and should not be used for protection against highly hazardous chemicals.

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STANDARDS AUSTRALIA

Australian Standard

Clothing for protection against hazardous chemicals

Part 2: Limited protection against specific chemicals

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This Standard specifies requirements for clothing providing limited protection against specific liquid chemicals which may impinge on the wearer by processes of splashing, dripping or low pressure spraying.

This Standard provides minimum safety requirements for clothing which provides protection against—

- (a) occasional exposure to droplets or small drips of specific liquid chemicals; or
- (b) a brief exposure to a low pressure jet or splash of specific liquid chemicals, whereby protection is provided for sufficient time to remove contaminated clothing before penetration of the chemical through the clothing occurs.

This Standard does not apply to clothing for protection against escaping liquids from pressurized systems, large spillage or overflows. It also does not apply to clothing designed to be resistant to volatile liquids with a high order of toxicity or other highly toxic or corrosive liquids. Requirements for clothing to protect against these hazards are given in Part 1 of this Standard (see Clause 1.2).

1.2 REFERENCED DOCUMENTS. The following Standards are referred to in this Standard:

AS	
3765	Clothing for protection against hazardous chemicals
3765.1	Part 1: Protection against general or specific chemicals
2001	Methods of test for textiles
2001.5.3	Part 5.3: Dimensional change—Determination of relaxation in aqueous solution

1.3 DEFINITIONS. For the purpose of this Standard, the definitions below apply.

1.3.1 Closure—a non-permanent meeting or overlap of two separate parts of protective clothing.

1.3.2 Flame-proof enclosure—an enclosure for electrical equipment which will withstand without damage, an explosion of a prescribed flammable gas or vapour within the enclosure and will prevent transmission of flame such as will ignite the external prescribed flammable gas or vapour for which it is designed and which operates at an external temperature that will not ignite a surrounding flammable atmosphere.

1.3.3 Penetration—the transfer of chemicals through protective clothing via imperfections such as porous or pin-holed material, or inadequate seams or closures.

1.3.4 Protective clothing—any apparel or garment incorporating provisions for the protection of a person against specific hazards.

1.3.5 Seams—a permanent meeting or overlap of two separate parts of protective clothing.

1.3.6 Shall—indicates that a statement is mandatory.

1.3.7 Should—indicates a recommendation.

1.3.8 Test liquid—an individual liquid chemical or a liquid formulation of chemicals that is used as a challenge agent.