

AS 2243.6—1990

Australian Standard[®]

Safety in laboratories

Part 6: Mechanical aspects

This Australian Standard was prepared by Committee CH/26, Safety in laboratories. It was approved on behalf of the Council of Standards Australia on 4 January 1990 and published on 7 May 1990.

The following interests are represented on Committee CH/26:

- Australian Chemical Industry Council
- Australian Government Analytical Laboratories
- Australian Institute of Petroleum
- National Association of Testing Authority, Australia

Additional interests participating in preparation of Standard:

- Australian Nuclear Science and Technology Organization
- Commonwealth Scientific and Industrial Research Organization
- Department of Agriculture and Rural Affairs, Vic.
- Department of Defence
- Department of Science
- University of Melbourne

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Safety in laboratories
Part 6: Mechanical aspects

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PREFACE

This Standard was prepared by the Standards Australia Committee on Safety in Laboratories under the direction of the Chemical Standards Board to supersede AS 2243.6—1980.

The revision was undertaken in keeping with the Standards Australia policy of revising Standards at least every five years. This edition has been expanded to include detailed information on the safeguarding of machinery and on the dangers from machinery.

Particular sections have also been expanded to include information on ventilation, principles of control of hazardous substances and operations, inventory of chemical substances, plasma cutting, cutting and welding of plastics materials, radiofrequency dielectric plastic welders, solvent welding of plastics, cryogenic liquids and hearing protection. In the preparation of this Standard cognizance was taken of the following documents:

- (a) Victorian Universities and Victoria Institute of Colleges, 'Code of Safety in Workshops'.
- (b) Commonwealth Scientific and Industrial Research Organization, 'Safety Handbook'
- (c) The University of Leeds, 'Safety Handbook'.
- (d) The University of New England, 'Safety Manual'.
- (e) The University of Warwick, 'Safety in Laboratories'.
- (f) Committee on Occupational Safety and Health in Commonwealth Government Employment, 'Draft Code of Practice: Laboratories (Physical and Metallurgical)'.
- (g) Handbook of Compressed Gases, Compressed Gas Association Inc, Reinhold, 2nd Edition, 1981.
- (h) AS 1219, Power presses—Safety requirements.
- (i) AS 1470, Health and safety at work—Principles and practices
- (j) AS 1473, Code of practice for the guarding and safe use of woodworking machinery
- (k) AS 1485, Safety and health in workrooms of educational establishments
- (l) AS 1893, Code of practice for the guarding and safe use of metal and paper cutting guillotines

This Standard is intended for use in conjunction with other Standards of the AS 2243 series and is applicable to all laboratory situations. Other parts of AS 2243 are as follows:

Part 1: General

Part 2: Chemical aspects

Part 3: Microbiology

Part 4: Ionizing radiations

Part 5: Non-ionizing radiations

Part 7: Electrical aspects

Part 8: Fume cupboards.

A further part of AS 2243 dealing with recirculating fume cabinets is in the course of preparation.

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