Australian/New Zealand Standard™

Safety in laboratories

Part 9: Recirculating fume cabinets





AS/NZS 2243.9:2009

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CH-026, Safety in Laboratories. It was approved on behalf of the Council of Standards Australia on 11 May 2009 and on behalf of the Council of Standards New Zealand on 22 May 2009. This Standard was published on 15 June 2009.

The following are represented on Committee CH-026:

Australian Industry Group Australian Institute of Occupational Hygienists CSIRO Department of Labour, New Zealand Department of Primary Industries, Vic. Ministry of Agriculture and Forestry, New Zealand Ministry of Economic Development, New Zealand National Association of Testing Authorities, Australia National Measurement Institute, Australia New Zealand Chemical Industry Council New Zealand Microbiological Society RMIT University Royal Australian Chemical Institute WorkCover New South Wales Worksafe Victoria

Additional Interests:

Department of Consumer and Employment Protection, WA Recirculating fume cabinet manufacturers/suppliers University of Sydney

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CH-026, Safety in Laboratories, to supersede AS/NZS 2243.9:2003. It was originally prepared as a result of a request from the Royal Australian Chemical Institute and other organizations for a Standard covering minimum safety requirements for recirculating fume cabinets.

The main changes made to the Standard in preparing this edition are as follows:

- (a) The requirement for the average face velocity to be 0.5 m/s has been replaced with this being the minimum average face velocity and a requirement for individual face velocity readings to be at least 0.3 m/s.
- (b) The recommendation for fan motors to be of brushless and sparkless design has been converted to a requirement for fan motors that are installed in the air stream.
- (c) The requirements and recommendations concerning siting of recirculating fume cabinets have been modified to reduce the likelihood of airflow disturbances at the working aperture.
- (d) The performance and calibration requirements for the anemometer used for face velocity testing have been clarified.

Other Standards in the series promoting safety in laboratories are as follows:

- Part 1: Planning and operational aspects
- Part 2: Chemical aspects
- Part 3: Microbiological aspects and containment facilities
- Part 4: Ionizing radiations
- Part 5: Non-ionizing radiations—Electromagnetic, sound and ultrasound
- Part 6: Mechanical aspects
- Part 7: Electrical aspects
- Part 8: Fume cupboards
- Part 10: Storage of chemicals

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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