Australian Standard®

Safety in laboratories

Part 7: Electrical 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 26 June 1991 and published on 16 September 1991.

The following interests are represented on Committee CH/26:

Australia Government Analytical Laboratories

Australian Institute of Petroleum

Australian Nuclear Science and Technology Organisation

Bureau of Steel Manufacturers

Chemical Confederation of Australia

Confederation of Australian Industry

CISIRO, Division of Energy Technology

Department of Agricultural Rural Affairs, Vic.

Department of Defence

National Association of Testing Authorities, Australia

Royal Australian Chemical Institute

University of Melbourne

Workcover Authority, N.S.W.

Additional interests participating in preparation of Standard:

Environmental Protection Authority, Vic.

Monash University

State Chemistry Laboratory, Vic.

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

Australian Standard®

Safety in laboratories Part 7: Electrical aspects

First published as AS 2243.7—1991. Second edition 1991.

PREFACE

This Standard was prepared by the Standards Australia Committee for Safety in Laboratories under the direction of the Chemical Standards Board to supersede AS 2243.7—1980. It is Part 7 of a series of Standards on safety in laboratories initiated to promote safe working practice in laboratories. The other parts of the series are as follows:

Part 1—General

Part 2—Chemical aspects

Part 3—Microbiology

Part 4—Ionizing radiations

Part 5—Non-ionizing radiations

Part 6—Mechanical aspects

Part 8—Fume cupboards

Part 9—Recirculating fume cabinets

Although this Standard does not consider electrical installations during laboratory construction, it is noted that AS 3000—1991 will require residual current device (RCD) protection on all general purpose outlets (GPOs) in domestic installations. It is therefore strongly recommended that RCD protection be provided for GPOs in laboratories.

© Copyright - STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

CONTENTS

3

		Page
SEC	TION 1 SCOPE AND GENERAL	
1.1 1.2 1.3	SCOPE	. 5
SEC	TION 2 GENERAL INFORMATION	
2.11 2.12 2.13 2.14 2.15 2.16	INSPECTION OF NEW EQUIPMENT	7 7 7 7 7 8 8 8 8 8 8 9 9
SEC	REGULATION EQUIPMENT	10
3.1 3.2	ISOLATION AND EMERGENCY SWITCHING SHOCK PROTECTION DEVICES	
SEC	TION 4 PROCEDURES FOR SAFE USE OF APPLIANCES	
4.1 4.2	PORTABLE APPLIANCES	12 12
SEC	TION 5 EXPERIMENTAL AND LIVE UNATTENDED EQUIPMENT	
	EXPERIMENTAL EQUIPMENT	14 14
SEC	TION 6 ELECTRICAL EQUIPMENT WHICH PASSES CURRENT THROUGH LIQUIDS	
6.1 6.2	ELECTROPHORESIS APPARATUS	15 15
SEC	TION 7 GENERAL PROCEDURES FOR INSPECTION, SERVICE AND MAINTENANCE OF ELECTRICAL EQUIPMENT AND APPLIANCES	
7.1 7.2 7.3	GENERAL	16 16 16
SEC	TION 8 ELECTRICAL SAFETY SYSTEMS	
8.1 8.2 8.3 8.4 8.5	GENERAL TAG SYSTEM LOCK-OUT SYSTEM PERMIT SYSTEM SEGREGATION OF HIGH-VOLTAGE AND HIGH-POWER ELECTRICAL EQUIPMENT	18 18 18 18 18



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation