

AS 2661—1983

Australian Standard<sup>®</sup>

---

**VAPOUR DEGREASING PLANT—  
DESIGN, INSTALLATION AND  
OPERATION—SAFETY  
REQUIREMENTS**

---

This Australian standard was prepared by Committee SF/24, Safety Code for Degreasing Plant. It was approved on behalf of the Council of the Standards Association of Australia on 18 August 1983 and published on 7 October 1983.

---

The following interests are represented on Committee SF/24:

Australian Chemical Industry Council  
Australian Chemical Specialities Manufacturers Association  
Australian and New Zealand Society of Occupational Medicine  
Commonwealth Institute of Health  
Confederation of Australian Industry  
Department of Defence  
Department of Industrial Relations, N.S.W.  
Department of Labour and Industry, Vic.  
Energy Authority of New South Wales  
Metal Trades Industry Association of Australia  
Royal Australian Chemical Institute  
Safety Institute of Australia

---

**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which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.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.

---

*This standard was issued in draft form for comment as DR 82150.*

AS 2661—1983

Australian Standard<sup>®</sup>

---

**VAPOUR DEGREASING PLANT—  
DESIGN, INSTALLATION AND  
OPERATION—SAFETY  
REQUIREMENTS**

---

First published . . . . . 1983
--------------------------------

PUBLISHED BY STANDARDS AUSTRALIA  
(STANDARDS ASSOCIATION OF AUSTRALIA)  
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 3188 6

## PREFACE

This standard was prepared by the Association's Committee on Safety for Degreasing Plant at the request of the Safety Standards Board, in an endeavour to establish safety requirements for the safe use of vapour degreasing plant.

The standard sets out the safety measures to be implemented by suppliers and manufacturers of vapour degreasing plant and prescribes requirements that ensure the safety and health of personnel engaged in the operation of such plant. It includes appendices that set out a recommended method for the cleaning of degreasing plant, first aid procedures and the description of properties of solvents used in vapour degreasing processes.

Persons who work with organic solvents may be exposed to hazards of airborne contamination, e.g. toxicity, and to other hazards such as oxygen starvation, decomposition products, liquid splashing and others. Protective measures should therefore be adopted by operators to avoid exposure by ingestion, by skin absorption or by inhalation of vapours or liquids at a concentration greater than those provided for in hygiene standards for atmospheric contaminants.

The standard covers the following categories of vapour degreasing plant using organic solvents:

- (a) Vapour degreasing.
- (b) Vapour degreasing with ultrasonic agitation.

The requirements set out in the standard may be considered for incorporation in statutory regulations.

This standard does not cover surface treatment processes or aqueous or alkaline degreasing and cleaning operations.

### © 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

	<i>Page</i>		<i>Page</i>
SECTION 1. SCOPE AND GENERAL		4.6 Restoration of Normal Operating Condition After Thermal Cutout . .	10
1.1 Scope . . . . .	4	SECTION 5. PERSONAL PROTECTION REQUIREMENTS	
1.2 Application . . . . .	4	5.1 Personal Protection . . . . .	11
1.3 Referenced Documents . . . . .	4	5.2 Health Provisions . . . . .	11
1.4 Definitions . . . . .	4	SECTION 6. INSPECTION AND MAINTENANCE	
SECTION 2. DESIGN AND CONSTRUCTION OF VAPOUR DEGREASING PLANT		6.1 General . . . . .	13
2.1 General . . . . .	6	6.2 Regular Checks . . . . .	13
2.2 Design . . . . .	6	6.3 Cleaning of Degreasing Plant . . . .	13
2.3 Construction . . . . .	6	SECTION 7. STORAGE AND HANDLING OF SOLVENTS	
SECTION 3. INSTALLATION REQUIREMENTS FOR VAPOUR DEGREASING PLANT		7.1 Storage of Solvents . . . . .	14
3.1 Installation . . . . .	8	7.2 Handling of Solvents . . . . .	14
3.2 Vapour Control . . . . .	8	SECTION 8. TRAINING OF PERSONNEL ENGAGED TO OPERATE VAPOUR DEGREASING PLANT	
3.3 Exhaust and Ventilation Systems . . . . .	8	8.1 General . . . . .	15
3.4 Mechanical Requirements . . . . .	8	8.2 Methods of Work . . . . .	15
3.5 Electrical Requirements . . . . .	8	8.3 Handling of Solvents . . . . .	15
3.6 Safety Signs . . . . .	8	8.4 Personal Hygiene and Health . . . .	15
3.7 Safety Provisions for the Installation of Heating Media . . . . .	8	8.5 Use of Protective Equipment . . . .	15
3.8 Piping and Conduits . . . . .	9	APPENDICES	
SECTION 4. SAFE OPERATION OF VAPOUR DEGREASING PLANT		A Recommended Method for the Cleaning of Vapour Degreasing Plant . . . .	16
4.1 Operating Instructions . . . . .	10	B Recommended First Aid Procedures . .	17
4.2 Lifting of Work Loads . . . . .	10	C Properties of Solvents Used for Vapour Degreasing Operations . . . . .	19
4.3 Removal of Degreased Parts . . . . .	10	D Example of a Work Permit . . . . .	20
4.4 Opening of Covers . . . . .	10		
4.5 Checking of Sump Temperature . .	10		

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

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