

Australian Standard<sup>®</sup>

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**DRY HEAT STERILIZERS  
(HOT AIR TYPE)**

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The following scientific industrial and government organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Allied Building Trades Federation of Australia  
Australian Capital Territory Health Commission  
Australian Medical Association  
Confederation of Australian Industry  
Department of Health, Queensland  
Department of Housing and Construction  
Department of Industrial Relations, N.S.W.  
Department of Public Works, N.S.W.  
Health Commission of New South Wales  
Health Commission of Victoria  
Institute of Hospital Engineers (Australia)  
Metal Trades Industry Association of Australia  
National Biological Standards Laboratory  
Public Health Department, W.A.  
Royal College of Pathologists of Australia  
South Australian Health Commission  
Sterilizing Research and Advisory Council  
Sterilizer Manufacturers Association of Australia  
Sterilization & Disinfection Society (Vic.)  
Sub-contractors Association of New South Wales

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## PREFACE

This standard was prepared by the Association's Committee on Sterilizing Equipment as one of a series of standards on sterilizers.

The standard applies to sterilizers which utilize electrically heated air to attain the sterilizing temperature. Attention is drawn to the need to verify that the material to be sterilized can satisfactorily withstand the sterilizing temperature which is specified to be at least 160°C.

Other Australian standards dealing with sterilizing and sanitizing equipment are as follows:

- AS 1410 Pre-vacuum Pressure Steam Sterilizers (with Mechanical Air Removal)
- AS 1714 Ethylene Oxide Sterilizers (Using Ethylene Oxide/Dichlorodifluoromethane 12%/88% m/m Sterilizing Gas Mixture)
- AS 1862 Aeration Cabinets (For Use with Ethylene Oxide Sterilizers)
- AS 2182 Portable Electrically Heated Steam Sterilizers (Downward Displacement Pressure Steam Type)
- AS 2192 Horizontal Sterilizers (Downward Displacement Pressure Steam Type)
- AS 2437 Flusher/Sanitizers for Bed Pans and Urine Bottles
- AS 2514 Drying Cabinets for Medical Equipment

Standards are in course of preparation for washer/disinfectors for respiratory apparatus, washer/sanitizers for hospital utensils and ultrasonic cleaners.

This standard may require reference to the following Australian and British standards:

- AS 1449 Wrought Alloy Steels—Stainless and Heat-resisting Steel Plate, Sheet and Strip
- AS 1627 Code of Practice for Preparation and Pretreatment of Metal Surfaces Prior to Protective Coating  
Part 5—Pickling Steel Surfaces
- AS 1650 Galvanized Coatings
- AS C100 Approval and Test Specification for Definitions and General Requirements for Electrical Materials and Equipment
- BS 1041 Code for Temperature Measurement

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## STANDARDS ASSOCIATION OF AUSTRALIA

**Australian Standard**  
**for**  
**DRY HEAT STERILIZERS (HOT AIR TYPE)**

## SECTION 1. SCOPE

**1.1 SCOPE.** This standard specifies requirements for sterilizers intended for use in hospitals, hospital laboratories and similar situations for the sterilization of instruments, metalware, glassware and oils.

These sterilizers utilize air, heated electrically to a temperature of not less than 160°C, and an automatically controlled sterilizing cycle, to achieve the sterilizing function.

This standard does not apply to sterilizers for—

- (a) liquids, oils and greases which have a boiling point less than the selected sterilizing temperature; or
- (b) fluids in non-vented bottles.

## NOTES:

1. Where oils to be sterilized are intended for use in eyedrops or injections, additional equipment, e.g. a simulated load probe and recorder, is required to reduce hazards to public health (see Appendix A, Paragraph A3).
2. Care should be exercised when sterilizing oils or greases which may produce flammable vapours.
3. The operating temperature required and other details need to be discussed at the time of enquiry or order (see Appendix A).