

Australian Standard<sup>®</sup>

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**METALS FOR THE MANUFACTURE  
OF SURGICAL IMPLANTS**  
**Part 3—WROUGHT TITANIUM**  
**6-ALUMINIUM**  
**4-VANADIUM ALLOY**

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

Australian Chamber of Commerce  
Australian Orthopaedic Association  
Bureau of Steel Manufacturers of Australia  
Confederation of Australian Industry  
Department of Defence  
Department of Health  
Metal Trades Industry Association of Australia  
Plastics Institute of Australia Incorporated  
Royal Australasian College of Surgeons  
Royal Newcastle Hospital  
Royal Perth Hospital  
University of Melbourne  
University of Newcastle  
University of New South Wales  
University of Sydney

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This standard, prepared by Committee MD/3, Surgical Implants, was approved on behalf of the Council of the Standards Association of Australia on 15 October 1979, and was published on 1 December 1979.

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First published (included in AS T35) . . . . .	1966
Revised and issued as AS 2320, Part 3 . . . . .	1979
Reconfirmed	1991

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

ISBN 0 7262 1801 4

## PREFACE

This standard for wrought titanium 6-aluminium 4-vanadium alloy for the manufacturer of surgical implants was prepared by the Association's Committee on Surgical Implants and was authorized by the Medical Materials and Equipment Standards Committee. It is one of a series of standards for surgical implants which will implement for Australian purposes international standards emanating from ISO/TC 150, Implants for Surgery.

Prior to publication of this standard, requirements for metals for the manufacture of implants were laid down in AS T35. The new series accordingly supersedes that standard. The technical requirements specified herein are identical with those laid down in ISO 5832/III Implants for Surgery—Metallic Materials, Part III: Wrought titanium 6-aluminium 4-vanadium alloy.

The one omission from the ISO standard relates to the re-submission of failed material after the manufacturer has re-heat treated the batch. The committee responsible for this Australian standard believed that the ISO paragraph in question was irrelevant to the specification of technical requirements for the metal.

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