

Plain Bearing Test Methods

RATIONALE

ARP5448 Revision A is a five year review and update of this specification.

1. SCOPE

This SAE Aerospace Recommended Practice (ARP) establishes methods for testing airframe plain bearings. The purpose of ARP5448 and its associated slash sheets is to document test methods commonly used to evaluate airframe bearings. These test methods may be referenced in specifications, part standards, purchase orders, etc. when the test is deemed appropriate to the intended use of the bearing by the end user of the bearing. These test methods are not intended to encompass every conceivable requirement for an airframe bearing. The end user of the bearing must exercise engineering judgment to determine the most appropriate standard and/or nonstandard tests for the application.

2. APPLICABLE DOCUMENTS

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org

ARP5448/1 Plain Bearing Radial Limit and Ultimate Load Tests

ARP5448/2 Plain Bearing High Speed Oscillation Test

ARP5448/3 Plain Bearing Low Speed Oscillation Test

ARP5448/4 Plain Bearing Bond Integrity

ARP5448/5 Plain Bearing No-Load Torque

ARP5448/6 Plain Spherical Bearing Conformity Examination

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2007 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Tel: 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org
SAE WEB ADDRESS: <http://www.sae.org>

- ARP5448/7 Plain Bearing Wear Measurements
- ARP5448/8 Plain Spherical Bearing Radial and Axial Clearance Measurement
- ARP5448/9 Plain Bearing Lined Inside Diameter Plug Gaging

3. GENERAL REQUIREMENTS

3.1 Test Method-Numbering System

This standard consists of a general basic document and supporting slash sheet documents. Each slash sheet document addresses a specific test method which is designated by a slash number commencing with number 1. A different slash number is assigned to each test method.

3.2 Document Format

Each test method is prepared as an individual document in the format of an Aerospace Recommended Practice. The basic document identifier, ARP5448, followed by a sequential slash number identifies the individual test method. The slash number is identical to the number of the test method. See Figure 1 for an example:

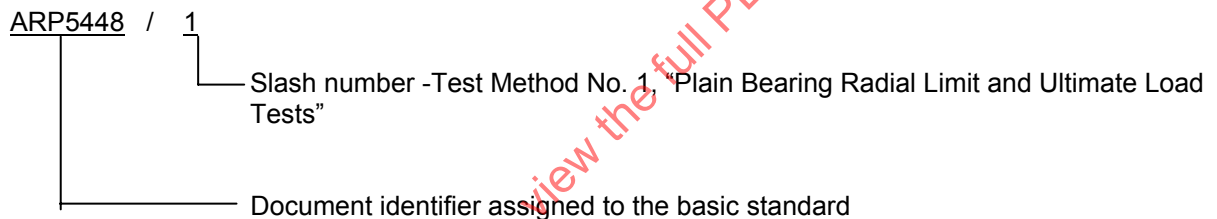


FIGURE 1

3.3 Method of Revision

The individual test method is revised and issued independent of the other parts. Revisions are identified by a capital letter immediately following the document identifier dash number. See Figure 2 for an example:

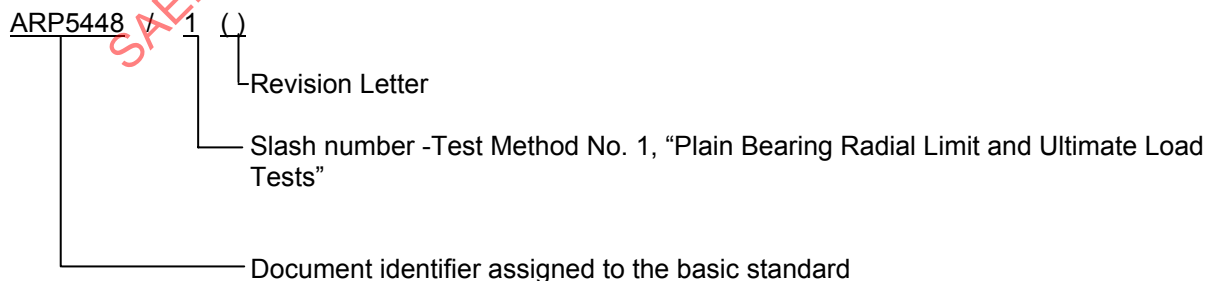


FIGURE 2