

AEROSPACE MATERIAL SPECIFICATION



MAM 2605B

Issued JAN 1985
Revised JUL 1991
Cancelled APR 2003

Superseding MAM 2605A

Pressure Testing
380 kPa

CANCELLATION NOTICE

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of April, 2003, and has been superseded by AMS 2610 using a test pressure of 380 to 450 kPa. The requirements of the latest issue of AMS 2610 using a test pressure of 380 to 450 kPa shall be fulfilled whenever reference is made to the cancelled MAM 2605. By this action, this document will remain listed in the Numerical Section of the Index of Aerospace Material Specifications noting that it is superseded by AMS 2610 using a test pressure of 380 to 450 kPa.

Cancelled specifications are available from SAE.

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 © 2003 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: custsvc@sae.org
SAE WEB ADDRESS: <http://www.sae.org>

1. SCOPE:

This specification provides requirements and procedures for air-pressure leak testing of parts.

1.1 AMS 2605 is the inch/pound version of this MAM.

2. APPLICABLE DOCUMENTS:

Not applicable.

3. TECHNICAL REQUIREMENTS:

3.1 Equipment:

3.1.1 Fixtures: Test fixtures shall not seal off areas of possible leakage or create stresses on parts other than those induced by the pressure itself or by fittings acceptable to purchaser.

3.1.2 Gaskets: Suitable gasket material shall be used with plugs or blanking plates to prevent damage to finished surfaces. Flanges or fittings designed for use with specific O-rings or gaskets shall use those for test. Formed-in-place gaskets that could mask dimensional or surface flaws shall not be used except for raw castings.

3.1.3 Valves: Bleeder valves shall be provided to release entrapped air.

3.1.4 Gauges: Pressure gauges shall have dial divisions not more than 15 kPa apart; gauges shall have been calibrated, within one year of use, using either primary standards or standards traceable to the National Institute of Standards.

3.1.5 Test Media Source: The source of test media shall provide the required pressure and shall be equipped with a pressure regulator to control the pressure.

3.1.6 Safety Tank or Screen: A suitable tank or screen shall be provided to protect the operator in case of failure of a part. (See 8.2).

3.1.7 Drying Oven: A circulating-air oven is required for drying parts subject to corrosion.

3.2 Test Media:

Shall be compressed air, nitrogen, or inert gas for applying internal pressure to the part. In addition, a tank of tap water or other transparent liquid shall be provided for parts tested by immersion; liquid soap or commercial leak detector solution shall be used on parts not immersed during test.