

AEROSPACE MATERIAL SPECIFICATION



MAM 2601C

Issued APR 1982
Revised MAY 1994
Cancelled APR 2003

Superseding MAM 2601B

Pressure Testing, Gaseous Media
70 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specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of April, 2003, and has been superseded by AMS 2610 using a test pressure of 70 to 105 kPa. The requirements of the latest issue of AMS 2610 using a test pressure of 70 to 105 kPa shall be fulfilled whenever reference is made to the cancelled MAM 2601. 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will remain listed in the Numerical Section of the Index of Aerospace Material Specifications noting that it is superseded by AMS 2610 using a test pressure of 70 to 105 kPa.

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1. SCOPE:

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

1.1 AMS 2601 is the inch/pound version of this MAM.

2. APPLICABLE DOCUMENTS:

There are no referenced publications specified herein.

3. TECHNICAL REQUIREMENTS:

3.1 Equipment:

- 3.1.1 Fixtures: Test fixtures shall not seal off areas of possible leakage or create excessive stresses on parts.
- 3.1.2 Gaskets: Suitable gasket material shall be used with plugs or blanking plates to prevent damage to finished surfaces.
- 3.1.3 Valves: Bleeder valves shall be provided to release entrapped air.
- 3.1.4 Gauges: Pressure gauges shall have sufficient dial divisions to permit monitoring of specified pressure.
- 3.1.5 Compressed Gas Source: The source of compressed gas 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.
- 3.1.7 Drying Oven: A circulating-air oven is required for drying parts subject to corrosion.

3.2 Test Media:

Shall be compressed 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 or liquid soap solution shall be used on parts not immersed during test.

3.3 Preparation:

- 3.3.1 Cleaning: The part shall be thoroughly cleaned before testing so that any leaks will be visible. Loose particles, machine shop chips, oils, and other foreign materials shall be removed before pressure testing.