

FED. SUPPLY CLASS

53GP

TABLE OF CONTENTS

<u>Paragraph</u>		<u>SHEET</u>
1.	SCOPE	2
2.	REFERENCE DOCUMENTS	2
2.1	ASTM INTERNATIONAL	2
2.2	THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)	2
2.3	NCSL INTERNATIONAL	2
3.	DEFINITIONS	2
4.	GENERAL REQUIREMENTS	2
4.1	TEST APPARATUS	2
4.1.1	TESTING MACHINE	2
4.2	TEST FIXTURES	2
4.3	TEST SPECIMEN	2
5.	DETAILED REQUIREMENTS	3
5.1	TEST PROCEDURES	3
6.	NOTES	3
6.1	TEST REPORT	3

FIGURES

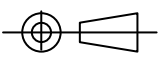
<u>Figures</u>		
1.	DOUBLE SHEAR FIXTURE	4
2.	FIXTURE BLADE	5
3.	FIXTURE FORK	5
4.	FIXTURE BASE	5

TABLES

<u>Tables</u>		
I	DOUBLE SHEAR LOAD RATES	4
II	DOUBLE SHEAR FIXTURE DIMENSIONS	6

② COMPLETELY REVISED

The initial release of this document supersedes MIL-STD-1312-13A. Designation for this test method remains MIL-STD-1312-13.

THIRD ANGLE PROJECTION		CUSTODIAN	REVISION
		NATIONAL AEROSPACE STANDARDS COMMITTEE	2
PROCUREMENT SPECIFICATION	NONE	TITLE	CLASSIFICATION
		FASTENER TEST METHODS METHOD 13 DOUBLE SHEAR TEST	STANDARD PRACTICE

1. SCOPE

- 1.1 This specification defines the procedure and apparatus for testing fasteners in double shear in a half-hole fixture.
- 1.2 Recommendations for improvements or corrections of this specification should be directed to an NASC representative of a using aerospace company or to the Executive Secretary of the National Aerospace Standards Committee.
- 1.3 Specifications listed herein, of issue in effect on date of price inquiry are a part of this specification to the extent indicated. This standard takes precedence over documents referenced herein.
- 1.4 All test equipment and test procedures shall meet and/or comply with applicable environmental and occupational safety hazard requirements and statutes.

2. REFERENCED DOCUMENTS

2.1 ASTM International

ASTM E 4 Standard Practice for Force Verification of Testing Machines

Copies can be obtained from ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959. www.astm.org

2.2 ASME

ASME Y14.5M-1982 Dimensioning and Tolerancing

Copies can be obtained from ASME, Three Park Ave., New York, NY 10016-5990. www.asme.org

2.3 NCSL International

NCSL Z540.1 Calibration system Requirements

Copies can be obtained from NCSL International, 2995 Wilderness Place, Suite 107, Boulder, CO 80301. www.ncsli.org

3. DEFINITIONS

- 3.1 The ultimate double shear load in pounds is the highest load attained at any time during the test.
- 3.2 The ultimate single shear load in PSI (pound per square inch) is calculated by dividing the highest load attained in pounds at any time during the double shear test by two (2) times the actual shank diameter area.

4. GENERAL REQUIREMENTS

4.1 Test Apparatus.

- 4.1.1 The testing machine shall be capable of applying a compressive load at a controllable rate. The calibrating system for the machine shall conform to NCSL Z540.1. Its accuracy shall be verified every twelve (12) months by a method complying with ASTM E 4, utilizing calibration equipment which has been calibrated by, or its accuracy is traceable to, the National Institute of Standards and Technology (NIST) not more than two (2) years prior to its use. The fastener or test specimen loads shall be within the range of the testing machine as defined in ASTM E 4.

4.2 Test Fixtures.

- 4.2.1 Test fixtures shall be in accordance with Figures 1 through 4 except as noted in /f/.

4.3 Test Specimen.

② COMPLETELY REVISED

REVISION

2

NAS1012-13
SHEET 2



Document Sharing Hub