

AEROSPACE STANDARD AMENDMENT

SAE AS23190-A2

Issued 2006-01

Straps, Clamps, and Mounting Hardware, Plastic and Metal for Cable Harness Tying and Support

FSC 5975

1. Present Requirement: 2.1 Government documents, Page 3

MIL-STD-105 Sampling Procedures & Tables for Inspection Attributes
MIL-STD-45662 Calibration System Requirements

Change Requirement: 2.1 Government documents, Page 3

Delete MIL-STD-105 and MIL-STD-45662 references

Add the following:

MS3339 Plate, Mounting, Plastic, Type IV, Class 1

MS3340 Bulkhead Bracket, Type IV, Class 1

MS341 Bracket, Mounting, Plastic, Type IV, Class 1

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser:456300C60-BS50.93 dated SEP 29 1995, Ser: 456300C60-50.111 dated 1 October 1995, and add references excluded from the Word-For-Word document.

2. Present requirement: 2. REFERENCED DOCUMENTS, 2.2 Other publications, Page 4

None

Change Requirement: 2. REFERENCED DOCUMENTS, 2.2 Other publications and 2.4.2; Add the following:

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SAE

AS23190/1 Clamp, Loop, Nylon, Adjustable, Wire support, Type III, Class 1

AS23190/2 Clamp, Loop, Metal, Cushioned, Wire Support, Type V, Class 1

AS23190/3 Strap, Tiedown, Adjustable, Corrosion Resistant Steel, Type VI, Class1

AS33671 Strap, Tiedown, Electrical Components, Adjustable, Self-Clinching, Plastic, type 1, Class 1

AS33681 Strap, Tiedown, Electrical Components, Identification, Adjustable, Self-Clinching, Plastic, type II, Class 1

AS25281 Clamp, Loop, Plastic, Wire Support, Type III, Class 1

Rationale for change: References to the AS23190 detail specification were excluded from the Word-For-Word document.

3. Present requirement: 2. REFERENCED DOCUMENTS, 2.2 Other publications, Page 4

ASTM D 4066

Change Requirement: 2. REFERENCED DOCUMENTS, 2.2 Other publications

ASTM D 4066-94B

Rationale of change: To maintain configuration control of material types.

4. Present Requirement: 2. REFERENCED DOCUMENTS, 2.2 Other publications, Page 4

Not required

Change Requirement: 2. REFERENCED DOCUMENTS, 2.2 Other publications, After the "DOD adopted", Page 4 add

AMERICAN NATIONAL STANDARDS INSTITUTE, ANSI/ISO 10012-1 Quality Assurance Requirements for Measuring Equipment

AMERICAN SOCIETY FOR QUALITY CONTROL, ASQC Z1.4, SAMPLING PROCEDURES AND TABLES FOR INSPECTION BY ATTRIBUTES

NATIONAL CONFERENCE OF STANDARDS LABORATORIES, NCSL Z540-1, -General Requirements for Calibration Laboratories and Measuring and Test Equipment

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Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser:456300C60-BS50.93 dated SEP 29 1995, and Ser: 456300C60-50.111 dated 1 October 1995.

5. Present Requirement: 2.4 Sources of documents, 2.4.2 Sources for non-government publications, Page 5

Not required

Change Requirement: 2.4 Sources of documents, 2.4.2 Sources for non-government publications, Page 11

d. American National Standards Institute, 11 West 42 nd Street, New York, NY 10036

e. American Society of Quality Control, PO Box 3005, 611 East Wisconsin Ave, Milwaukee, WI 53201-46004

f. National Conference of Standards Laboratories, 1800 30 th Street, 305B, Boulder, CO 80301-1032

g. SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser:456300C60-BS50.93 dated SEP 29 1995, Ser: 456300C60-50.111 dated 1 October 1995, detail specification references.

6. Present Requirement: Paragraph 3.3.2, "Melt Point" Page 5

3.3.2 Melting point: Components composed of polyamide (nylon) rigid materials shall be tested in accordance with 4.6.6. The test pieces shall be from the final component and not the raw material. The melt point shall be as specified in ASTM D 4066 (see 6.5).

Change Requirement: Paragraph 3.3.2, "Melt Point" Page 5

Delete

Rationale for Change: As indicated in Navy Ltr Ser456100C77DAL-M026.20 of 1 June 1998, ASTM D 4066 no longer has melt point requirements, and the nylon certification requirements in Paragraph 4.3.1 is sufficient for this test.

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7. Present requirement: 4.3.1 "Nylon Material" Page 8 first sentence

The --- ASTM D 4066 Type --- equivalent.

Change requirement: 4.3.1 "Nylon Material" Page 8 first sentence

The --- ASTM D 4066 94B Type --- equivalent.

Rationale of change: To maintain configuration control of material types.

8. Present Requirement: Section 4. QUALITY ASSURANCE PROVISIONS, 4.1.1 Test equipment and inspection facilities, last sentence, Page 7

"Calibration of the standards which control the accuracy of inspection equipment shall comply with the requirements of MIL-STD-45662."

Change Requirement: Section 4. QUALITY ASSURANCE PROVISIONS, 4.1.1 Test equipment and inspection facilities, last sentence, Page 7

"Calibration of the standards which control the accuracy of inspection equipment shall comply with the requirements of ANSI/NCSL Z540-1 or ISO 10012-1."

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser:456300C60-50.111 dated 1 October 1995.

9. Present Requirement: 4.5 Quality conformance inspection, 4.5.2.1 Sampling plan, Page 11

Sampling plan: A random sample shall be selected from each inspection lot in accordance with Level I of MIL-STD-105 for inspection based on the specified AQL in Table II. Classification of defects shall be as specified in MIL-STD-105 and in Table II. A manufacturer's normal quality control tests and production tests may be used to fulfill Group A inspection, provided they at least equal the quality required by Table II.

Change Requirement: 4.5 Quality conformance inspection, 4.5.2.1 Sampling plan, Page 11

Sampling plan: A random sample shall be selected from each inspection lot in accordance with Level I of ANSI/ASQC Z1.4 for inspection based on the specified AQL in Table II. Classification of defects shall be as specified in Table II and definitions in herein (see 6.8). A manufacturer's normal quality control tests and production tests may be used to fulfill Group A inspection, provided they at least equal the quality required by Table II.

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser:456300C60-BS50.93 dated SEP 29 1995

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10. Present Requirement: Paragraph 4.6.6, "Melt Point" Page 15

4.6.6 Melting point: Melting point tests shall be made on plastic test samples in accordance with ASTM D 4066 per test methods of ASTM D 789 (see 6.5).

Change Requirement: Paragraph 4.6.6, "Melt Point" Page 15

Delete

Rationale for Change: As indicated in Navy Ltr Ser456100C77DAL-M026.20 of 1 June 1998, ASTM D 4066 no longer has melt point requirements, and the nylon certification requirements in Paragraph 4.3.1 is sufficient for this test.

11. Present Requirement: 6.5 "Melting point of nylon" Page 17

The types --- ASTM D 4066 Nylon Injection and Extrusion Materials.

Change requirement: 6.5 "Melting point of nylon" Page 17

The types --- ASTM D 4066 B94 Nylon Injection and Extrusion Materials.

Rationale of change: To maintain configuration control of material types.

12. Present Requirement: 6.8 Definitions, Page 18

Not required

Change Requirement: 6.8 Definitions, Page 48

b. Critical Defect: A critical defect is a defect that judgment and experience indicate would result in hazardous or unsafe conditions for individuals using, maintaining, or depending upon the product, or a defect that judgment and experience indicate is likely to prevent performance of the actual function of a major end item such as a ship, aircraft, tank, missile, or space vehicle.

c. Defect: A defect is any nonconformance of the unit of product with specified requirements.

d. Major defect: A major defect is a defect, other than critical, that is likely to result in failure, or to reduce the usability of the unit of product for its intended purpose.

e. Minor defect: A minor defect is a defect that is not likely to reduce materially the usability of the unit of product for its intended purpose, or is a departure from established standards having little bearing on the effective use or operation of the unit.

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser:456300C60-BS50.93 dated SEP 29 1995

Amendment A1: February 2005

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ASTM D 4066

Change Requirement: 2. REFERENCED DOCUMENTS, 2.2 Other publications

ASTM D 4066-94B

Rationale of change: To maintain configuration control of material types.

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