SAE Aerospace
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AEROSPACE STANDARD AMENDMENT

SAE AS81044-A1
Issued 2004-12

Wire, Electrical, Crosslinked Polyalkene, Crosslinked Alkane-Imide Polymer, or Polyarlyene Insulated, Copper or Copper Alloy

FSC 5935

1. Present Requirement: 2.1 Government-furnished documents, Page 3

Not specified

Change Requirement: 2.1 Government-furnished documents, Page 3 after MIL-L-23699 add

MIL-W-29606 Wire, Electrical, Stranded, Uninsulated Copper, Copper Alloy, or Aluminum, or Thermocouple Extension, General Specification For

MIL-T-83133 Turbine Fuel, Aviation, Kerosene Types, NATO F-34 (JP-8) and NATO F-35

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser:, 10380 444-CBH/dj/oa M50.80-1 of AUG 17 and 197210380 DP704N/M-60 M13.03 of 11 July 1994

2. Present Requirement: 2.1 Government-furnished documents, Page 3

MIL-STD-105 Sampling Procedures & Tables for Inspection Attributes

Change Requirement: 2.1 Government-furnished documents, Page 3

Delete MIL-STD-105

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

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**

3. Present Requirement: 2.1 PUBLICATIONS, Page 4

Not specified

Change Requirement: 2.1 PUBLICATIONS, Page 4 after “(Copies --- officer)” add

SD-6 Provisions Governing Qualification

(Application for copies should be addressed to the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

Rationale for Change: To include Qualification Activity requirement

4. Present Requirement: 2.2 Other publications, Page 4

Not specified

Change Requirement: 2.2 Other publications, Page 4 add after “B355-69” listing

ANSI/ASTM D 3032 Standard Test Methods for Hookup Wire Insulation

Rationale for Change: Navy letter 10380 DP704n-CBH/AT50.93 of 16 March 1993

5. Present Requirement: 2.2 Other publications, Page 4

Not specified

Change Requirement: Other publication on Page 4 after “(Copies --- 19103.)” add.

American Society for Quality Control

ASQC Z1.4 Sampling Procedures and Tables for Inspection by Attributes

(Application for copies should be addressed to the American Society of Quality Control, PO Box 3005, 611 East Wisconsin Ave, Milwaukee, WI 53201-46004)

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

6. Present Requirement: Table 1 on Page 6 footnote 1

> 1/ Nominal values are for information only. Nominal values are not requirements

Change Requirement: Table 1 on Page 6 change footnote 1 to the following:

> 1/ Nominal values are for information only. Conductor circular mil area requirements are in accordance with MIL-W-29606.

Rationale for Change: Navy letter 10380 444-CBH/dj/0a M50.80-1 of AUG 17 1992

7. Present Requirement: 4.4.1.4 Inspection levels and acceptable quality levels (AQL) (Groups I an II tests) on Page 17

> For Group I characteristics, including the insulation resistance test, the inspection level shall be S-2 and the AQL shall be 6.5 percent defective units in accordance with MILSTD-105. For Group II characteristics, the inspection level shall be S-3 and the AQL shall be 1.5 percent defective units.

Change Requirement: 4.4.1.4 Inspection levels and acceptable quality levels (AQL) (Groups I an II tests) on Page 17 change to

> For Group I characteristics, including the insulation resistance test, the inspection level shall be S-2 and the AQL shall be 6.5 percent defective units in accordance with ANSI/ASQC Z1.4. For Group II characteristics, the inspection level shall be S-3 and the AQL shall be 1.5 percent defective units. Major and minor defects shall be as defined herein (see 6.5).

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

8. Present Requirement: 4.4.2 Nonconforming inspection lots on Page 18

> Disposition of inspection lots found unacceptable under initial quality conformance inspection shall be in accordance with MIL-STD-105.

Change Requirement: 4.4.2 Nonconforming inspection lots on Page 18 change to

> Disposition of inspection lots found unacceptable under initial quality conformance inspection shall be in accordance with ANSI/ASQC Z1.4.

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

9. Present Requirement: 4.7.5.1.3 Test Procedure on Page 22

Not specified

Change Requirement: After 4.7.5.1.3 Test Procedure on Page 22 add

4.7.5.1.4 Alternative Impulse Test: Impulse testing may also be performed in accordance with ASTM D3032, Section 13, Method B, with the following changes:

A. As a minimum, subject the wire or cable to no less than 6 positive and negative crests of supply voltage (ASTM D3032 requires a minimum of 18 positive and negative crests).
B. Use 0.25mm +/- 0.005mm for a spacing between the plate and the wire (ASTM D3032 uses 0.15mm)

Rationale for Change: Navy letter 10380 DP704n-CBH/AT50.93 of 16 March 1993

10. Present Requirement: Immersion test, Item (d) on Page 30

Turbine fuel, aviation, Grade JP-4, MIL-T-5624

Change Requirement: Immersion test, Item (d) on Page 30 change to

Turbine fuel, aviation, Grade JP-4 in MIL-T-5624 or Turbine Fuel JP-8 in MIL-T-83133

Rationale for Change: Incorporate Department of the Navy Engineering Position Letter Ser: 10380 DP704N/M-60 M51.05 of 11 July 1994

11. Present Requirement: 6.3 Qualification on Page 35

6.3 Qualification:

With -----this Qualified Products List.