

FED. SUPPLY CLASS

5325

## 1. SCOPE

1.1 Scope. This specification covers grommets with washers or rings for use with miscellaneous canvas and leather equipment.

1.2 Classification. Grommets shall be of the following types, as specified.

|           |                                                     |
|-----------|-----------------------------------------------------|
| Type I    | Plain Grommet With Plain Washer (See NASM20230)     |
| Type II   | Plain Grommet With Toothed Washer                   |
| Type III  | Rolled Rim Grommet With Spur Washer (See NASM20230) |
| Type IV   | Oblong Grommet With Flat Washer                     |
| Type V    | Oblong Grommet With Raised Washer                   |
| Type VIII | Eyelet Grommet With Ring                            |

## 2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

### SPECIFICATIONS

#### Federal

|             |                                                          |
|-------------|----------------------------------------------------------|
| QQ-A-250/11 | Aluminum Alloy 6061, Plate and Sheet                     |
| TT-E-489    | Enamel, Alkyd, Gloss (for Exterior and Interior Surface) |

#### Military

|               |                                                                      |
|---------------|----------------------------------------------------------------------|
| MIL-F-495     | Finish, Chemical, Black, for Copper Alloys                           |
| MIL-A-8625    | Anodic Coatings, for Aluminum and Aluminum Alloys                    |
| DOD-DTL-16232 | Phosphate Coating, Heavy Manganese or Zinc Base (for Ferrous Metals) |
| MIL-G-16491/1 | Grommet, Metallic, Plain With Toothed Washer (Type II)               |
| MIL-G-16491/2 | Grommet, Metallic, Oblong With Flat Washer (Type IV)                 |
| MIL-G-16491/3 | Grommet, Metallic, Oblong With Raised Washer (Type V)                |

### STANDARDS

#### Federal

|             |                                       |
|-------------|---------------------------------------|
| FED-STD-595 | Colors Used in Government Procurement |
|-------------|---------------------------------------|

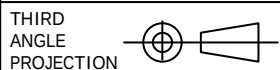
#### Military

|                |                                                                     |
|----------------|---------------------------------------------------------------------|
| MIL-STD-2073-1 | Standard Practice for Military Packaging                            |
| MS20230        | Grommet, Metallic, Plain and Spur With Washer (Type I and Type III) |

(Copies of specifications, standards, and other government documents required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MIL-G-16491, REVISION F.



CUSTODIAN  
NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION  
**1**

PROCUREMENT  
SPECIFICATION

TITLE

CLASSIFICATION  
SPECIFICATION

NONE

**GROMMET, METALLIC,  
GENERAL SPECIFICATION FOR**

**NASM16491**  
SHEET 1 OF 6

- 2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted shall be those listed in the issue of the DODISS specified in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS shall be the issue of the nongovernment documents which is current on the date of the solicitation.

American Society for Quality (ASQ)

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

Copies can be obtained from the American Society for Quality, 600 North Plankinton Ave., Milwaukee, WI 53203  
[www.asq.org](http://www.asq.org)

ASTM International

|                              |                                                                        |
|------------------------------|------------------------------------------------------------------------|
| ASTM B 36/B 36M              | Brass Plate, Sheet, Strip, and Rolled Bar                              |
| ASTM A 47/A 47M              | Malleable Iron Casting                                                 |
| <del>ASTM A 366</del>        | <del>Steel Sheets, Carbon Cold Rolled, Commercial Quality</del>        |
| ASTM A 510                   | General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel |
| <del>ASTM A 619/A 619M</del> | <del>Steel Sheet, Carbon Cold Rolled, Drawing Quality</del>            |
| ASTM B 633                   | Electrodeposited Coatings of Zinc on Iron and Steel                    |
| ASTM A 1008/A 1008M          | Steel Sheets, Carbon Cold Rolled, Commercial Quality                   |
| ASTM D 3951                  | Standard Practice for Commercial Packaging                             |

Copies can be obtained from ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA, 19428-2959 USA [www.astm.org](http://www.astm.org)

Aerospace Industries Association

|             |                                                                     |
|-------------|---------------------------------------------------------------------|
| NASM16491/1 | Grommet, Metallic, Plain With Toothed Washer (Type II)              |
| NASM16491/2 | Grommet, Metallic, Oblong With Flat Washer (Type IV)                |
| NASM16491/3 | Grommet, Metallic, Oblong With Raised Washer (Type V)               |
| NASM20230   | Grommet, Metallic, Plain and Spur With Washer (Type I and Type III) |

Copies can be obtained from the Aerospace Industries Association, 1000 Wilson Blvd., Suite 1700, Arlington, VA 22209 [www.aia-aerospace.org](http://www.aia-aerospace.org)

SAE International

|              |                                                                          |
|--------------|--------------------------------------------------------------------------|
| AMS-QQ-N-290 | Nickel Plating (Electrodeposited)                                        |
| AMS-QQ-P-416 | Plating, Cadmium (Electrodeposited)                                      |
| AMS4027      | Aluminum Alloy, Sheet and Plate, Solution and Precipitation Heat Treated |

Copies can be obtained from SAE International, 400 Commonwealth Dr., Warrendale, PA 15096-0001 [www.sae.org](http://www.sae.org)

(Nongovernment standards and other publications are normally available from the organizations which prepare, or which distribute the documents. These documents also may be available in or through libraries or other informational services.)

- 2.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein (except for associated detail specifications, specification sheets or NAS standards), the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

### 3. REQUIREMENTS

- 3.1 Specification sheets. The individual item requirements shall be as specified herein and in accordance with the applicable specification sheet. In the event of any conflict between the requirements of this specification and the specification sheet, the latter shall govern (see 6.2).

① COMPLETELY REVISED

| REVISION         |
|------------------|
| 1                |
| <b>NASM16491</b> |
| SHEET 2          |

