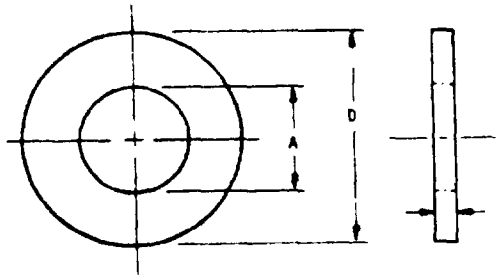


FED. SUP CLASS
5310

UNLESS OTHERWISE SPECIFIED:

REVIEWED SYMBOLS:

NAVY - SH
AF - 99
ARMY -
D.A. - JS

REQUIREMENTS:

1. MATERIAL: CORROSION RESISTANT STEEL
PER MIL-S-5059 OR MIL-S-6721 -C CODE
- ALUMINUM ALLOY PER QQ-A-250/5,
CONDITION T3 OR T4 -D CODE
2. COATING: PASSIVATION PER QQ-P-35 (FOR UNCOATED CRES) -NO CODE
- BLACK OXIDE COAT PER MIL-C-13924 (FOR CRES) -Y CODE
- CHEMICAL CONVERSION PER MIL-C-5541, CLASS 3
(ALUMINUM ALLOY) -J CODE
- ANODIZE PER MIL-A-8625 (ALUMINUM ALLOY) -K CODE

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should be based on the information in the current DODSS.

This military standard is approved for use by all Departments
& Agencies of the Department of Defense. Selection for all new
engineering and design applications and for replacement use shall
be made from this document.

P.A.
NAVY - AS
Other CustAF-11
ARMY-AVPROCUREMENT SPECIFICATION
FF-P-92

TITLE

WASHERS, FLAT, FOR OVERSIZE
FASTENERS AND FASTENER SLEEVES

SUPERSEDES:

MILITARY STANDARD

MS 14226

SHEET 1 OF 3

DD FORM 672-1 (Coordinate)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

PROJECT NO. 5310-1223

PLATE NO. 5310

APPROVED 24 SEPT 1982

FED. SUP. CLASS

5310

TABLE I. WASHERS FOR 1/64 OVERSIZE FASTENERS
AND FASTENER SLEEVES

SIZE PIN (OR SLEEVE)	A DIA. + .005 - .000	D DIA. + .020 - .005	T	DASH NUMBERS			
				COR. RESIST. STEEL		ALUMINUM ALLOY	
				UNCOATED	COATED	CHEM. CONV. COATING	ANODIZED SURFACES
NO. 8 (.185)	.190	.375	.032	L64C8	L64YC8	L64JD8	L64KD8
NO. 10 (.210)	.215	.438	.032 .063	L64C10 64C10	L64YC10 64YC10	64JD10	64KD10
1/4 (.270)	.275	.500	.032 .063	L64C416 64C416	L64YC416 64YC416	64JD416	64KD416
5/16 (.333)	.338	.562	.032 .063	L64C516 64C516	L64YC516 64YC516	64JD516	64KD516
3/8 (.395)	.400	.625	.032 .063	L64C616 64C616	L64YC616 64YC616	64JD616	64KD616
7/16 (.458)	.463	.750	.032 .063	L64C716 64C716	L64YC716 64YC716	64JD716	64KD716
1/2 (.520)	.525	.875	.032 .063	L64C816 64C816	L64YC816 64YC816	64JD816	64KD816

TABLE II. WASHERS FOR 1/32 OVERSIZE FASTENERS
AND FASTENER SLEEVES

SIZE PIN (OR SLEEVE)	A DIA. + .005 - .000	D DIA. + .020 - .005	T	DASH NUMBERS			
				COR. RESIST. STEEL		ALUMINUM ALLOY	
				UNCOATED	COATED	CHEM. CONV. COATING	ANODIZED SURFACES
NO. 8 (.200)	.205	.375	.032	L32C8	L32YC8	L32JD8	L32KD8
NO. 10 (.226)	.231	.438	.032 .063	L32C10 32C10	L32YC10 32YC10	32JD10	32KD10
1/4 (.286)	.291	.500	.032 .063	L32C416 32C416	L32YC416 32YC416	32JD416	32KD416
5/16 (.348)	.353	.562	.032 .063	L32C516 32C516	L32YC516 32YC516	32JD516	32KD516
3/8 (.411)	.416	.625	.032 .063	L32C616 32C616	L32YC616 32YC616	32JD616	32KD616
7/16 (.474)	.479	.750	.032 .063	L32C716 32C716	L32YC716 32YC716	32JD716	32KD716
1/2 (.536)	.541	.875	.032 .063	L32C816 32C816	L32YC816 32YC816	32JD816	32KD816

UNCLASSIFIED

REVISION SYMBOLS:
NAVY - SH
AF - 99
ARMY - 15
D/A - 15

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P.A.
NAVY - AS
Other Cust
AF-11
ARMY-AV

TITLE

WASHERS, FLAT, FOR OVERSIZE
FASTENERS AND FASTENER SLEEVES

MILITARY STANDARD

MS14226

PROCUREMENT SPECIFICATION

SUPERSEDES:

FF-W-92

SHEET

2

OF

3

DD FORM 1 MAR 79 672-1 (Coordinate)

CONTAINS REVISIONS OF THIS FORM AND OBSOLETE

PLATE NO. 22005

FED. SUP CLASS
5310

UNLESS OTHERWISE SPECIFIED:

REVISIONS SYMBOLS:

NAVY - SH
AF - 99
ARMY -
DIA - 15

NOTES:

1. REMOVE ALL BURRS AND SHARP EDGES.
2. DIMENSIONS IN INCHES.
3. TOLERANCES ON:
THICKNESS: $.032 \pm .004$; $.063 \pm .006$
ALL OTHER DIMENSIONS: $\pm .010$
4. SURFACE CHARACTERISTICS:
WASHER FACES SHALL BE PARALLEL WITHIN $.002$ INCH.
WASHER FACES SHALL BE FLAT WITHIN $.007$ INCH.
5. "J" CODE WASHERS WHEN LOW ELECTRICAL RESISTANCE REQUIRED.
6. "K" CODE WASHERS WHERE CORROSION PROTECTION PRIME CONSIDERATION.
7. EXAMPLE OF PART NUMBER:

MS14226 L 64 Y C S16 = WASHER, FLAT, LIGHT SERIES, 1/64 OVERSIZE, BLACK OXIDE COAT, CRES, FOR 5/16 DIA PIN (OR SLEEVE)

PIN SIZE (5/16 DIA. PIN)

MATERIAL CODE (SEE REQ. 1 AND TABLE 1)

COATING CODE (SEE REQ. 2)

OVERSIZE (64 DENOTES 1/64 OVERSIZE)
(32 DENOTES 1/32 OVERSIZE)

"-" DENOTES REGULAR SERIES

"L" DENOTES LIGHT SERIES

MS NUMBER

8. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BIDS, OR REQUEST FOR PROPOSAL EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.
9. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

"Review/inter information is current as of the date of this document. For future coordination of changes to this document, shall circulation should be based on the information in the current DDSSS."

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P.A. NAVY - AS Other Cust AF-11 ARMY-AV	TITLE WASHERS, FLAT, FOR OVERSIZE FASTENERS AND FASTENER SLEEVES	MILITARY STANDARD MS14226
PROCUREMENT SPECIFICATION FF-W-92	SUPERSEDES:	SHEET 3 OF 3

DD FORM 1 MAR 72 672-1 (Continued)

REVISIONS OF THIS FORM ARE OBSOLETE.

PLATE NO. 22600

REVISED

APPROVED