

FED. SUPPLY CLASS

5310

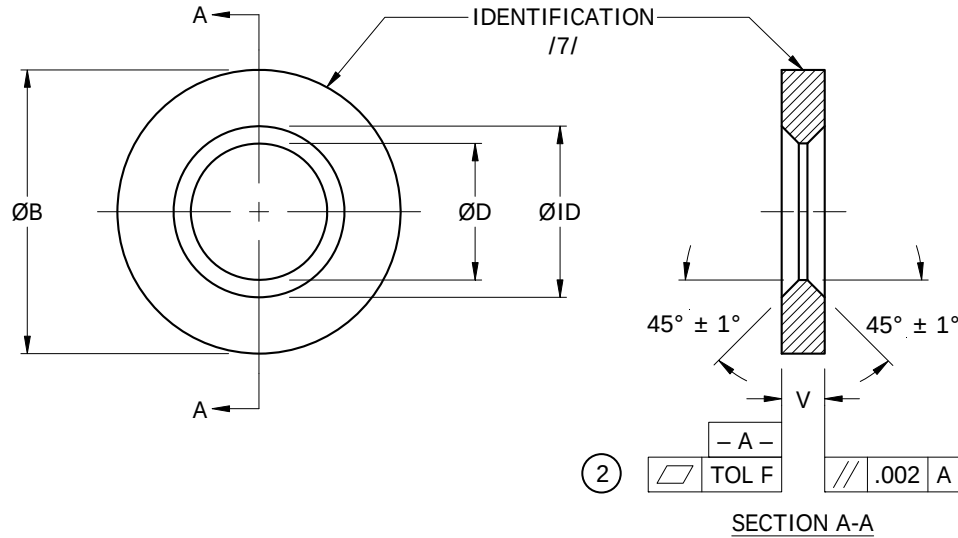


TABLE I – DIMENSIONS AND WEIGHTS

DASH NO.	NOMINAL SIZE	ØB		ØD		ØID		V		F	APPROX WEIGHT LB/100
		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN		
4	.250	.532	.522	.255	.251	.347	.337	.133	.119	.007	.55
5	.312	.651	.641	.318	.314	.409	.399	.133	.119		.83
6	.375	.795	.785	.380	.376	.504	.494	.167	.153		1.58
7	.438	.912	.902	.443	.439	.566	.556	.167	.153		2.07
8	.500	1.038	1.028	.505	.501	.629	.619	.167	.153		2.71
9	.562	1.158	1.148	.568	.564	.691	.681	.167	.153	.010	3.39
10	.626	1.302	1.292	.631	.627	.785	.775	.198	.184		5.10
12	.750	1.546	1.536	.756	.752	.910	.900	.198	.184		7.25
14	.875	1.791	1.781	.881	.877	1.035	1.025	.198	.184		9.78

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS14177, REVISION B. PART NUMBERS REMAIN MS14177.

THIRD
ANGLE
PROJECTION

CUSTODIAN
NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION
2

PROCUREMENT
SPECIFICATION

FF-W-92

TITLE
**WASHER, RECESSED, COUNTERSUNK TWO SURFACES,
FOR USE WITH WHEEL BOLTS AND NUTS UP TO
AND INCLUDING 220 KSI Ft_u**

CLASSIFICATION
PART STANDARD

MS14177
SHEET 1 OF 2

MATERIAL: ALLOY STEEL – 4130 (UNS G41300) PER ~~MIL-S-6758~~ AMS-S-6758, ~~MIL-S-18729~~ AMS6345, AMS6350 OR AMS6351.

HARDNESS: 39-43HRC.

FINISH: CADMIUM PLATING PER AMS-QQ-P-416, TYPE II, CLASS 2.

EXAMPLE OF PART NUMBER:

MS14177-4 = WASHER, COUNTERSUNK TWO SURFACES FOR Ø.250, 220 KSI BOLT.

NOTES:

- (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (2) DESIGN AND USAGE INFORMATION: THESE WASHERS ARE PRIMARILY FOR USE WITH MS14164 NUTS AND MS14163 BOLTS.
- (3) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- ② (4) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (5) SURFACE ROUGHNESS: 125 MICROINCHES Ra PER ASME B46.1.
- (6) REMOVE ALL BURRS AND BREAK SHARP EDGES .005 MAX.
- /7/ MARK PART NUMBER, MANUFACTURER'S IDENTIFICATION AND LOT TRACEABILITY CODE, DEPRESSED .003-.010.
- (8) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (9) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

REVISION

2

NASM14177

SHEET 2



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