

TABLE I. WASHER DIMENSIONS AND WEIGHTS

NOMINAL SIZE	DASH NUMBER		∮ 8 (o)		●D (a)		BA		V		E	FLATNESS	WASHER APPROX. WEIGHT LBS/100	
	CSK	PLAIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	± 1°	MAX	CSK	PLAIN
.1900	C3	3	.387	.377	.195	.191	.290	.280	.069	.057	45	.007	.15	.15
.2500	C4	4	.491	.481	.255	.251	.350	.340	.069	.057	45		.23	.24
.3125	C5	5	.598	.588	.318	.314	.412	.402	.069	.057	45		.33	.35
.3750	C6	6	.712	.702	.380	.376	.507	.497	.085	.071	45		.58	.49
.4375	C7	7	.831	.821	.443	.439	.569	.559	.085	.071	45		.79	.57
.5000	C8	8	.950	.940	.505	.501	.632	.622	.085	.071	45		1.03	.88
.5625	C9	9	1.069	1.059	.568	.564	.694	.684	.085	.071	45	.010	1.30	1.12
.6250	C10	10	1.192	1.182	.631	.627	.788	.778	.085	.071	45		2.31	1.40
.7500	C12	12	1.433	1.423	.756	.752	.913	.903	.085	.071	45		3.32	2.03
.8750	C14	14	1.668	1.658	.881	.877	1.038	1.028	.085	.071	45		6.71	2.75
1.0000	C16	16	1.905	1.895	1.006	1.002	1.163	1.153	.119	.099	45		8.71	3.59
1.1250	C18	18	2.150	2.140	1.131	1.127	1.288	1.278	.119	.099	45		11.00	4.48
1.2500	C20	20	2.391	2.381	1.256	1.252	1.445	1.435	.119	.099	45		13.61	5.68
1.3750	C22	22	2.637	2.627	1.381	1.377	1.570	1.560	.119	.099	45	.015	19.84	6.93
1.5000	C24	24	2.884	2.874	1.506	1.502	1.695	1.685	.119	.099	45		23.69	8.31

⁽a) MINIMUM BEARING AREA BASED ON A BEARING STRESS OF 125% OF MATERIAL COMPRESSION YIELD (=45 KSI) AND 67% OF BOLT ULTIMATE TENSILE VALUE OF 260 KSI.

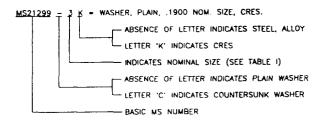
	A ENTIRE SPECIFICATION REVISED	INCH-POUND			
PREPARING ACTMTY: DLA-IS CUSTODIANS: ARMY- AV NAVY- AS	MILITARY SPECIFICATION SHEET	SPECIFICATION SHEET NUMBER MS21299 SEP 19 REV A			
AIR FORCE- 11 DLA-	WASHER, COUNTERSUNK AND PLAIN, FOR USE WITH BOLTS AND NUTS UP TO AND INCLUDING 260 KSI FIU	SUPERSEDING MS21299 28 JAN 1972			
USER: PROJECT NUMBER: 5310-2001		AMSC- N/A FSC 5310			
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REQUIREMENTS:

- 1. MATERIAL: STEEL, ALLOY IN ACCORDANCE WITH MIL-S-6758 OR MIL-S-18729. CRES, 17-4PH IN ACCORDANCE WITH AMS 5604, CONDITION H 1025.
- 2. HARDNESS: STEEL ALLOY HRG 39-45, CRES 17-4PH HRG 35-42.
- 3. FINISH: 17-4PH MATERIAL ~ PASSIVATE IN ACCORDANCE WITH QQ-P-35.
 STEEL, ALLOY CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 2.
- 4. SURFACE TEXTURE: 125 MICROINCHES IN ACCORDANCE WITH ANSI/ASME B46.1.
- 5. EXAMPLE OF PART NUMBER:



NOTES:

- 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
- 2. INTERPRET DRAWING IN ACCORDANCE WITH MIL-STD-100.
- WASHER SHALL BE FREE FROM ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLOGED UNDER USAGE.
- DESIGN AND USAGE INFORMATION: THESE WASHERS ARE PRIMARILY FOR USE WITH MS21296, MS21134, MS21297 AND MIL-B-8906/2 BOLTS.
- IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS DOCUMENT AND THE REFERENCES CITED HEREIN. THE TEXT OF THIS DOCUMENT TAKES PRECEDENCE.
- UNLESS OTHERWISE SPECIFIED, ISSUES OF REFERENCED DOCUMENTS ARE THOSE IN EFFECT AT THE TIME OF SOLICATION.

PREPARING ACTIVITY: DLA-IS CUSTODIANS: ARMY- AV NAVY- AS	W.LITARY SPECIFICATION SHEET	SPECIFICATION SHEET NUMBER MS21299	30 SEP 1994 REV A
AIR FORCE- 11 DLA- REVIEW:	WASHER, COUNTERSUNK AND PLAIN, FOR USE WITH BOLTS AND NUTS UP TO AND INCLUDING 250 KSI Ftu	SUPERSEDING MS21299 28 JAN 1972	
USER: PROJECT NUMBER: 5310-2001	TO AND INCLUDING 200 K3 FTB	AMSC- N/A FSC	5310
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