

TABLE | WASHER DIMENSIONS AND WEIGHTS

NOMINAL SIZE	DASH NUMBER		Ø∃ (a)		øD (c)		ØA		v		Ε	FLATNESS		APPROX. 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	.67
.5000	СВ	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	<b>4</b> 5		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 9 3
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.

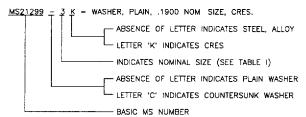
	A ENTIRE SPECIFICATION REVISED	INCH-POUND			
PREPARING ACTIVITY, DLA-IS CUSTODIANS: ARMY- AV NAVY- AS	MILITARY SPECIFICATION SHEET	SPECIFICATION SHEET NUMBER  MS21299  30 SEP 1994 REV A			
AIR FORCE- 11 DLA REVIEW	WASHER, COUNTERSUNK AND PLAIN, FOR USE WITH BOLTS AND NUTS UP	SUPERSEDING MS21299 28 JAN 1972			
USER PROJECT NUMBER: 5310-2001	TO AND INCLUDING 260 KSI Fiu	AMSC- N/A FSC 5310			
DISTRIBUTION STATEMENT A Approved for public	release, distribution is unlimited	Page _1 _ of _2			

Form Approved OMB No. 0704-0188

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. HARDNESS: STEEL ALLOY HRc 39-45, CRES 17-4PH HRc 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
- SURFACE TEXTURE: 125 MICROINCHES IN ACCORDANCE WITH ANSI/ASME B46.1
- EXAMPLE OF PART NUMBER

REQUIREMENTS



## 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	MILITARY SPECIFICATION SHEET	SPECIFICATION SHEET NUMBER MS21299 30 SEP 1994 REV A			
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