

AS9698™

FEDERAL SUPPLY CLASS
5306

NOTICE

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL'S) MAY CONTINUE TO BE MANDATORY FOR DoD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

WRENCHING CONFIGURATION PER AS870-12 FOR THIS DISTANCE

MARK PART NUMBER AND MANUFACTURER'S IDENTIFICATION PER AS478 CLASS A EXCEPT EDGE DISTANCE REQUIREMENTS DO NOT APPLY

SHAPE OPTIONAL IN THIS AREA

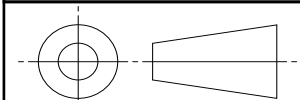
SECTION THRU THREAD PROFILE

DIMENSIONS:

- .3750 NOM
- .348
- .328
- .166 MIN
- .070 MIN
- .250
- .025
- .015
- .32
- .259
- .239
- .022 MIN
- .290
- .280
- .3125-24UNJF-3A PER AS8879
- .008 Y
- .008 Y
- .003 Y
- .003/1
- .006 Z
- Y /1/
- Z
- CR .025 .015
- THREAD RUNOUT PER AS3062
- 45° APPROX
- CHAMFER 28° - 32° TO Ø .365 -.385
- 35° MIN TO ROOT OF DOUBLE HEX
- Ø .460 MIN BEARING SURFACE
- 5° MAX
- Ø .216 .196
- .225
- .166

FIGURE 1 - BOLT

THIRD ANGLE PROJECTION



PROCUREMENT SPECIFICATION: AS7471



BOLT, MACHINE - DOUBLE HEXAGON EXTENDED
WASHER HEAD, PD SHANK, NICKEL ALLOY (UNS N07001),
165 KSI MIN. ,3125-24 UNJF-3A

REV.
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Documents

Full document details: SAE AS9698D

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NO.	L	K	APPROX MASS LB/100	PART NO.	L	K	APPROX MASS LB/100
MS9698-04	.490- .510	.088- .108	2.17	MS9698-32	2.615-2.635	1.690-1.750	6.19
MS9698-05	.552- .572	.088- .108	2.29	MS9698-33	2.740-2.760	1.815-1.875	6.42
MS9698-06	.615- .635	.088- .108	2.41	MS9698-34	2.865-2.885	1.940-2.000	6.66
MS9698-07	.678- .698	.088- .108	2.52	MS9698-35	2.990-3.010	2.065-2.125	6.90
MS9698-08	.740- .760	.088- .108	2.64	MS9698-36	3.115-3.135	2.190-2.250	7.13
MS9698-09	.802- .822	.088- .108	2.76	MS9698-37	3.240-3.260	2.315-2.375	7.36
MS9698-10	.865- .885	.088- .108	2.88	MS9698-38	3.365-3.385	2.440-2.500	7.60
MS9698-11	.928- .948	.088- .108	3.00	MS9698-39	3.490-3.510	2.565-2.625	7.84
MS9698-12	.990-1.010	.088- .125	3.11	MS9698-40	3.615-3.635	2.690-2.750	8.07
MS9698-13	1.052-1.072	.128- .188	3.23	MS9698-41	3.740-3.760	2.815-2.875	8.31
MS9698-14	1.115-1.135	.190- .250	3.35	MS9698-42	3.865-3.885	2.940-3.000	8.54
MS9698-15	1.178-1.198	.252- .312	3.47	MS9698-43	3.990-4.010	3.065-3.125	8.78
MS9698-16	1.240-1.260	.315- .375	3.59	MS9698-44	4.115-4.135	3.190-3.250	9.02
MS9698-17	1.302-1.322	.378- .438	3.70	MS9698-45	4.240-4.260	3.315-3.375	9.25
MS9698-18	1.365-1.385	.440- .500	3.82	MS9698-46	4.365-4.385	3.440-3.500	9.49
MS9698-19	1.428-1.448	.502- .562	3.94	MS9698-47	4.490-4.510	3.565-3.625	9.72
MS9698-20	1.490-1.510	.565- .625	4.06	MS9698-48	4.615-4.635	3.690-3.750	9.96
MS9698-21	1.552-1.572	.628- .688	4.18	MS9698-49	4.740-4.760	3.815-3.875	10.20
MS9698-22	1.615-1.635	.690- .750	4.29	MS9698-50	4.865-4.885	3.940-4.000	10.43
MS9698-23	1.678-1.698	.752- .812	4.41	MS9698-51	4.990-5.010	4.065-4.125	10.67
MS9698-24	1.740-1.760	.815- .875	4.53	MS9698-52	5.115-5.135	4.190-4.250	10.91
MS9698-25	1.802-1.822	.877- .938	4.65	MS9698-53	5.240-5.260	4.315-4.375	11.14
MS9698-26	1.865-1.885	.940-1.000	4.77	MS9698-54	5.365-5.385	4.440-4.500	11.38
MS9698-27	1.990-2.010	1.065-1.125	5.00	MS9698-55	5.490-5.510	4.565-4.625	11.61
MS9698-28	2.115-2.135	1.190-1.250	5.24	MS9698-56	5.615-5.635	4.690-4.750	11.85
MS9698-29	2.240-2.260	1.315-1.375	5.48	MS9698-57	5.740-5.760	4.815-4.875	12.09
MS9698-30	2.365-2.385	1.440-1.500	5.71	MS9698-58	5.865-5.885	4.940-5.000	12.32
MS9698-31	2.490-2.510	1.565-1.625	5.95	MS9698-59	5.990-6.010	5.065-5.125	12.56

NOTES:

- FOR PART NUMBERS MS9698-04 THRU MS9698-14, DATUM Z SHALL REPLACE DATUM Y.
- MATERIAL: AMS5708 NICKEL ALLOY (COMPOSITION SIMILAR TO UNS N07001).
- PROCUREMENT SPECIFICATION: AS7471.
- FLUORESCENT PENETRANT INSPECTION PER ASTM E1417/E1417M, TYPE 1, SENSITIVITY LEVEL 2 MIN.
- EXCEPT PART NUMBERS MS9698-14 AND SMALLER, HEAD TO SHANK FILLET SHALL BE COLD ROLLED. COLD ROLLING SHALL BE SUFFICIENT TO REMOVE ALL VISUAL EVIDENCE OF GRINDING OR TOOL MARKS.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
- BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE IN INCHES.
- DIMENSIONING AND TOLERANCING PER ASME Y14.5-2018.
- UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- DO NOT USE UNASSIGNED PART NUMBERS.
- REVISION INDICATOR: A CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT, INCLUDING TECHNICAL REVISIONS. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS, NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.

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	AEROSPACE STANDARD	AS9698™	REV.
	BOLT, MACHINE - DOUBLE HEXAGON EXTENDED WASHER HEAD, PD SHANK, NICKEL ALLOY (UNS N07001), 165 KSI MIN, .3125-24 UNJF-3A	SHEET 2 OF 3	1



Documents

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