AS9928

NOTICE

THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MS9928A AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MS9928A. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.
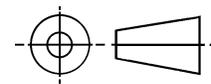
UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENT RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS SAE TECHNICAL DOCUMENT.

ISSUED 2000-08

THIRD ANGLE PROJECTION

PREPARED BY SAE COMMITTEE E-25

SAE *The Engineering Society For Advancing Mobility Land Sea Air and Space®*
I N T E R N A T I O N A L
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

BOLT, MACHINE - DOUBLE HEXAGON EXTENDED WASHER HEAD, DRILLED, PD SHANK, STEEL AMS 6322, CADMIUM PLATED, .500-20 UNJF-3A

AS9928
SHEET 1 OF 4

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DoDISS) SPECIFIED IN THE SOLICITATION: AMS 2640 EXCEPT HEAD SHALL BE UPSET.

WRENCHING CONFIGURATION IN ACCORDANCE WITH AS 870 FOR THIS DISTANCE

⌀.500
.5625 NOM

MARK PART NO. AND MANUFACTURER'S IDENTIFICATION IN ACCORDANCE WITH AS 478 CLASS A.

CHAMFER 28°−32° TO ⌀.562

⌀.370

⌀.070 4 HOLES EQUALLY SPACED AS SHOWN CSK 90° TO ⌀.100

R .015 MAX

.232 MIN
5° MAX

.338
.250
.389
.125 MIN

R .030/.020

140° MIN

35° MIN TO ROOT OF DOUBLE HEX

⊥ .003 B
32

L
K
250

MAXIMUM 2 INCOMPLETE THREADS

CHAMFER .047 X 45° APPROX.

⌀ .472/.462

32

.500−20 UNJF−3A SEE REQT 2

THREAD PD

SECTION THRU THREAD PROFILE

SAE *The Engineering Society For Advancing Mobility Land Sea Air and Space*
I N T E R N A T I O N A L ®
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

BOLT, MACHINE - DOUBLE HEXAGON EXTENDED WASHER HEAD, DRILLED, PD SHANK, STEEL AMS 6322, CADMIUM PLATED, .500-20 UNJF-3A

AS9928
SHEET 2 OF 4

TABLE I. DASH NUMBERS AND DIMENSIONS.

PART NO.	L	K	APPROXIMATE WEIGHT LB/100	PART NO.	L	K	APPROXIMATE WEIGHT LB/100
-03	.750	.105- .125	7.25				
-04	.812	.105- .125	7.56	-31	3.000	1.590-1.750	18.14
-05	.875	.105- .125	7.86	-32	3.125	1.815-1.875	18.75
-06	.938	.105- .125	8.16	-33	3.250	1.940-2.000	19.35
-07	1.000	.105- .125	8.47	-34	3.375	2.065-2.125	19.95
-08	1.062	.105- .125	8.77	-35	3.500	2.190-2.250	20.54
-09	1.125	.105- .125	9.07	-36	3.625	2.315-2.375	21..17
-10	1.188	.105- .125	9.37	-37	3.750	2.440-2.500	21.77
-11	1.250	.105- .125	9.67	-38	3.875	2.565-2.625	22.32
-12	1.312	.105- .125	9.97	-39	4.000	2.690-2.750	22.98
-13	1.375	.105- .125	10.27	-40	4.125	2.815-2.875	23.59
-14	1.438	.128- .188	10.57	-41	4.250	2.940-3.000	24.16
-15	1.500	.190- .250	10.87	-42	4.375	3.065-3.125	24.79
-16	1.562	.252- .312	11.18	-43	4.500	3.190-3.250	25.40
-17	1.625	.315- .375	11.49	-44	4.625	3.315-3.375	26.01
-18	1.688	.378- .438	11.79	-45	4.750	3.440-3.500	26.61
-19	1.750	.440- .500	12.09	-46	4.875	3.565-3.625	27.22
-20	1.812	.502- .562	12..40	-47	5.000	3.690-3.750	27.82
-21	1.875	.565- .625	12.70	-48	5.125	3.815-3.875	28.43
-22	1.938	.628- .688	13.00	-49	5.250	3.940-4.000	29.22
-23	2.000	.690- .750	13.31	-50	5.375	4.065-4.125	29.61
-24	2.125	.815- .875	13.91	-51	5.500	4.190-4.250	30.24
-25	2.250	.940-1.000	14.51	-52	5.625	4.315-4.375	30.85
-26	2.375	1.065-1.125	15.11	-53	5.750	4.440-4.500	31.45
-27	2.500	1.190-1.250	15.72	-54	5.875	4.565-4.625	32.05
-28	2.625	1.315-1.375	16.33	-55	6.000	4.690-4.750	32.66
-29	2.750	1.440-1.500	16.93				
-30	2.875	1.565-1.625	17.54				

REQUIREMENTS:

1. MATERIAL: CORROSION AND HEAT RESISTANT STEEL IN ACCORDANCE WITH AMS 6322.

2. THREADS: THREADS IN ACCORDANCE WITH MIL-S-8879. INCOMPLETE THREADS NOT TO ENTER FILLET.

3. FINISH: CADMIUM PLATE IN ACCORDANCE WITH AMS 2400. DIMENSIONS SPECIFIED ARE AFTER PLATING.

4. MAGNETIC PARTICLE INSPECTION: MAGNETIC PARTICLE INSPECTION SHALL BE IN ACCORDANCE WITH AMS 2640 AFTER PLATING.

5. SURFACE TEXTURE: SURFACE TEXTURE IN ACCORDANCE WITH ANSI/ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACE TO BE 125 MICROINCHES EXCEPT UPSET HEAD.

SAE *The Engineering Society*
For Advancing Mobility
Land Sea Air and Space ®
I N T E R N A T I O N A L
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

BOLT, MACHINE - DOUBLE HEXAGON EXTENDED WASHER HEAD, DRILLED, PD SHANK, STEEL AMS 6322, CADMIUM PLATED, .500-20 UNJF-3A

AS9928
SHEET 3 OF 4