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**MS9445 (ASG)**

MARK MS9445 AND MANUFACTURER'S IDENTIFICATION PER AS 478 CLASS A

CHAMFER .047 x 45° APPROX

MAXIMUM 2 IMPERFECT THREADS (SEE NOTE 4)

CHAMFER 30° TO .750 DIAMETER (OPPOSITE SIDE OPTIONAL)

THIS SURFACE MUST BE SQUARE WITH SHANK WITHIN .003 FIR

FED SUP CLASS 5306

PART NUMBER	L	K	APPROX WEIGHT LB/100	PART NUMBER	L	K	APPROX WEIGHT LB/100
MS9445-04	.612	.105-.125	8.28	MS9445-31	3.250	1.940-2.000	20.09
MS9445-05	.675	.105-.125	8.59	MS9445-32	3.375	2.065-2.125	20.70
MS9445-06	.938	.105-.125	8.90	MS9445-33	3.500	2.190-2.250	21.30
MS9445-07	1.000	.105-.125	9.21	MS9445-34	3.625	2.315-2.375	21.90
MS9445-08	1.062	.105-.125	9.52	MS9445-35	3.750	2.440-2.500	22.51
MS9445-09	1.125	.105-.125	9.82	MS9445-36	3.875	2.565-2.625	23.11
MS9445-10	1.188	.105-.125	10.12	MS9445-37	4.000	2.690-2.750	23.72
MS9445-11	1.250	.105-.125	10.42	MS9445-38	4.125	2.815-2.875	24.32
MS9445-12	1.312	.105-.125	10.73	MS9445-39	4.250	2.940-3.000	24.92
MS9445-13	1.375	.125-.145	11.03	MS9445-40	4.375	3.065-3.125	25.53
MS9445-14	1.438	.128-.148	11.33	MS9445-41	4.500	3.190-3.250	26.13
MS9445-15	1.500	.190-.250	11.63	MS9445-42	4.625	3.315-3.375	26.74
MS9445-16	1.562	.252-.312	11.93	MS9445-43	4.750	3.440-3.500	27.34
MS9445-17	1.625	.315-.375	12.24	MS9445-44	4.875	3.565-3.625	27.95
MS9445-18	1.688	.378-.438	12.54	MS9445-45	5.000	3.690-3.750	28.55
MS9445-19	1.750	.440-.500	12.84	MS9445-46	5.125	3.815-3.875	29.15
MS9445-20	1.875	.565-.625	13.44	MS9445-47	5.250	3.940-4.000	29.76
MS9445-21	2.000	.690-.750	14.05	MS9445-48	5.375	4.065-4.125	30.36
MS9445-22	2.125	.815-.875	14.65	MS9445-49	5.500	4.190-4.250	30.97
MS9445-23	2.250	.940-1.000	15.26	MS9445-50	5.625	4.315-4.375	31.57
MS9445-24	2.375	1.065-1.125	15.86	MS9445-51	5.750	4.440-4.500	32.18
MS9445-25	2.500	1.190-1.250	16.47	MS9445-52	5.875	4.565-4.625	32.78
MS9445-26	2.625	1.315-1.375	17.07	MS9445-53	6.000	4.690-4.750	33.38
MS9445-27	2.750	1.440-1.500	17.67				
MS9445-28	2.875	1.565-1.625	18.28				
MS9445-29	3.000	1.690-1.750	18.88				
MS9445-30	3.125	1.815-1.875	19.49				

1. SHANK SHALL BE STRAIGHT WITHIN .002 FIR PER INCH OF BOLT LENGTH.
2. THE CONCENTRICITY OF THREAD PD IN RELATION TO THE SHANK SHALL BE WITHIN .006 FIR.
3. THE CONCENTRICITY OF THE SHANK IN RELATION TO THE WASHER FACE DIAMETER AND HEXAGON SHALL BE WITHIN .003 FIR.
4. INCOMPLETE THREADS NOT TO ENTER FILLET AREA.
5. MATERIAL STEEL AMS 6304.
6. HARDNESS ROCKWELL C42-46.
7. FINISH DIFFUSED NICKEL-CADMIUM PLATE AMS 2416 DIMENSIONS SPECIFIED ARE AFTER PLATING CONTACT POINTS PERMISSIBLE. PD MAY BE REDUCED .0012 MAXIMUM BEFORE PLATING.
8. MANUFACTURING SPECIFICATION AMS 7455 PARTS SUBJECT TO MAGNETIC PARTICLE INSPECTION PER AMS 2640 BEFORE PLATING.
9. SURFACE ROUGHNESS AS 291, UNLESS OTHERWISE SPECIFIED SURFACES TO BE 125 MICROINCHES EXCEPT HEXAGON.
10. BREAK SHARP EDGES .003 - .015 UNLESS OTHERWISE SPECIFIED.
11. DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCES; LINEAR DIMENSIONS ± .010, ANGULAR DIMENSIONS ± 5°.
12. TRUE POSITION TOLERANCES SPECIFIED ARE FOR MAXIMUM MATERIAL CONDITION.
13. DO NOT USE UNASSIGNED PART NUMBERS.

AS & AMS ARE SAE PUBLICATIONS  
THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE ENGINE AND PROPELLER UTILITY PARTS COMMITTEE OF THE SAE.

P.A.	TITLE	<b>MILITARY STANDARD</b>
USAF - AFSC	BOLT, MACHINE - STEEL AMS 6304, DIFFUSED NICKEL-CADMIUM PLATED, HEXAGON HEAD, DRILLED, .500-20 UNJF-3A	<b>MS9445 (ASG)</b>
Other Cust		
NAVY - WEP		
PROCUREMENT SPECIFICATION	SUPERSEDES	SHEET 1 OF 1
NONE		

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APPROVED