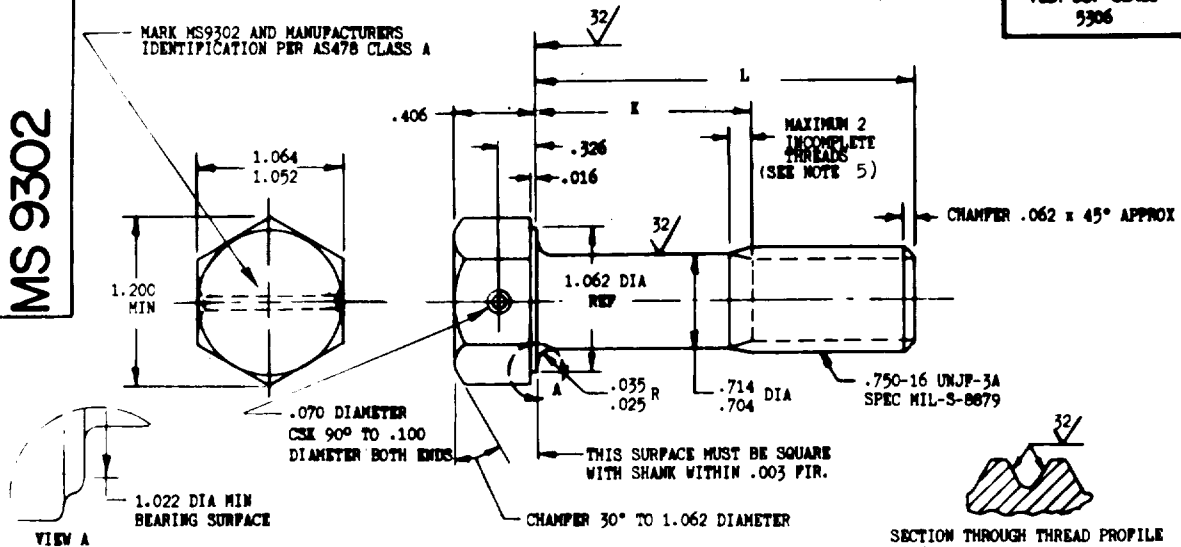


MS 9302

MARK MS9302 AND MANUFACTURERS IDENTIFICATION PER AS478 CLASS A



VIEW A ENLARGED

SECTION THROUGH THREAD PROFILE

PART NUMBER	L	K	APPROX WEIGHT LB/100	PART NUMBER	L	K	APPROX WEIGHT LB/100
MS9302-06	1.250	.129-.149	24.93	MS9302-31	3.625	1.815-1.875	51.36
MS9302-07	1.312	.129-.149	25.63	MS9302-32	3.750	1.940-2.000	52.75
MS9302-08	1.375	.129-.149	26.32	MS9302-33	3.875	2.065-2.125	54.14
MS9302-09	1.438	.129-.149	27.02	MS9302-34	4.000	2.190-2.250	55.53
MS9302-10	1.500	.129-.149	27.71	MS9302-35	4.125	2.315-2.375	56.92
MS9302-11	1.562	.129-.149	28.41	MS9302-36	4.250	2.440-2.500	58.31
MS9302-12	1.625	.129-.149	29.11	MS9302-37	4.375	2.565-2.625	59.70
MS9302-13	1.688	.129-.149	29.80	MS9302-38	4.500	2.690-2.750	61.09
MS9302-14	1.750	.129-.149	30.50	MS9302-39	4.625	2.815-2.875	62.48
MS9302-15	1.812	.129-.149	31.19	MS9302-40	4.750	2.940-3.000	63.87
MS9302-16	1.875	.129-.149	31.89	MS9302-41	4.875	3.065-3.125	65.26
MS9302-17	1.938	.129-.188	32.58	MS9302-42	5.000	3.190-3.250	66.65
MS9302-18	2.000	.190-.250	33.28	MS9302-43	5.125	3.315-3.375	68.04
MS9302-19	2.125	.315-.375	34.67	MS9302-44	5.250	3.440-3.500	69.43
MS9302-20	2.250	.440-.500	36.06	MS9302-45	5.375	3.565-3.625	70.82
MS9302-21	2.375	.565-.625	37.45	MS9302-46	5.500	3.690-3.750	72.22
MS9302-22	2.500	.690-.750	38.84	MS9302-47	5.625	3.815-3.875	73.61
MS9302-23	2.625	.815-.875	40.23	MS9302-48	5.750	3.940-4.000	75.00
MS9302-24	2.750	.940-1.000	41.62	MS9302-49	5.875	4.065-4.125	76.39
MS9302-25	2.875	1.065-1.125	43.01	MS9302-50	6.000	4.190-4.250	77.78
MS9302-26	3.000	1.190-1.250	44.40				
MS9302-27	3.125	1.315-1.375	45.79				
MS9302-28	3.250	1.440-1.500	47.18				
MS9302-29	3.375	1.565-1.625	48.57				
MS9302-30	3.500	1.690-1.750	49.97				

- HEAD TO SHANK FILLET SHALL BE COLD ROLLED AFTER HEAT TREATMENT TO REMOVE ALL VISUAL EVIDENCE OF GRINDING OR TOOL MARKS.
- SHANK SHALL BE STRAIGHT WITHIN .002 PER INCH OF BOLT LENGTH.
- THE CONCENTRICITY OF THREAD PD IN RELATION TO THE SHANK SHALL BE WITHIN .006 FIR.
- THE CONCENTRICITY OF THE SHANK IN RELATION TO THE WASHER FACE DIAMETER AND HEXAGON SHALL BE WITHIN .032 FIR.
- INCOMPLETE THREADS NOT TO ENTER FILLET.
- MATERIAL: STEEL AMS 6322.
- HARDNESS: ROCKWELL C26-32.
- FINISH: BLACK OXIDE TREATMENT AMS 2485.
- MANUFACTURING SPECIFICATION: AMS 7452 EXCEPT HEAD MUST BE UPSET.
- MAGNETIC PARTICLE INSPECTION PER AMS 2640.
- SURFACE ROUGHNESS: AS 291. UNLESS OTHERWISE SPECIFIED SURFACES TO BE 125 MICROINCHES EXCEPT HEXAGON.
- BREAK SHARP EDGES .003-.015 UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ± .010, ANGULAR DIMENSIONS ± .
- DO NOT USE UNASSIGNED PART NUMBERS.

**(A) INACTIVE FOR DESIGN AFTER 26 OCTOBER 1972. NO SUPERSEDING STANDARD.**

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

P.A. USAF - 11 Other Cust Navy - AS	TITLE BOLT, MACHINE-STEEL AMS 6322, BLACK OXIDE, DRILLED, 1 HOLE, HEXAGON HEAD, .750-16 UNJF-3A	MILITARY STANDARD <b>MS9302</b>
PROCUREMENT SPECIFICATION NONE	SUPERSEDES:	SHEET 1 OF 1

Review activities:  
USAF - 11  
Navy - AS

This standard has been approved by the Department of the Air Force (11) and the Department of the Navy and is mandatory for use by their activity. All other military activities are requested to employ this standard where suitable.

APPROVED 24 Sept 65 REVISED (A) 28 Oct 72