



SECTION THRU THREAD PROFILE

PART NO.	L	K +.000 -.060	APPROX. WEIGHT LB/100	PART NO.	L	K +.000 -.060	APPROX. WEIGHT LB/100	PART NO.	L	K +.000 -.060	APPROX. WEIGHT LB/100
MS21281-04	.500	(a)	2.14	MS21281-22	1.625	.750	4.10	MS21281-40	3.750	2.875	7.95
MS21281-05	.562	(a)	2.21	MS21281-23	1.688	.812	4.22	MS21281-41	3.875	3.000	8.17
MS21281-06	.625	(a)	2.28	MS21281-24	1.750	.875	4.33	MS21281-42	4.000	3.125	8.40
MS21281-07	.688	(a)	2.39	MS21281-25	1.875	1.000	4.55	MS21281-43	4.125	3.250	8.63
MS21281-08	.750	(a)	2.51	MS21281-26	2.000	1.125	4.77	MS21281-44	4.250	3.375	8.86
MS21281-09	.812	(a)	2.62	MS21281-27	2.125	1.250	5.00	MS21281-45	4.375	3.500	9.08
MS21281-10	.875	(a)	2.73	MS21281-28	2.250	1.375	5.23	MS21281-46	4.500	3.625	9.30
MS21281-11	.938	(a)	2.85	MS21281-29	2.375	1.500	5.45	MS21281-47	4.625	3.750	9.52
MS21281-12	1.000	.125	2.96	MS21281-30	2.500	1.625	5.67	MS21281-48	4.750	3.875	9.74
MS21281-13	1.062	.188	3.07	MS21281-31	2.625	1.750	5.90	MS21281-49	4.875	4.000	9.95
MS21281-14	1.125	.250	3.19	MS21281-32	2.750	1.875	6.13	MS21281-50	5.000	4.125	10.17
MS21281-15	1.188	.312	3.30	MS21281-33	2.875	2.000	6.36	MS21281-51	5.125	4.250	10.40
MS21281-16	1.250	.375	3.41	MS21281-34	3.000	2.125	6.58	MS21281-52	5.250	4.375	10.63
MS21281-17	1.312	.438	3.52	MS21281-35	3.125	2.250	6.80	MS21281-53	5.375	4.500	10.86
MS21281-18	1.375	.500	3.64	MS21281-36	3.250	2.375	7.03	MS21281-54	5.500	4.625	11.10
MS21281-19	1.438	.562	3.75	MS21281-37	3.375	2.500	7.27	MS21281-55	5.625	4.750	11.33
MS21281-20	1.500	.625	3.87	MS21281-38	3.500	2.625	7.50	MS21281-56	5.750	4.875	11.56
MS21281-21	1.562	.688	3.98	MS21281-39	3.625	2.750	7.73	MS21281-57	5.875	5.000	11.78
								MS21281-58	6.000	5.125	12.00

(a) THREAD TO HEAD. MAXIMUM TWO IMPERFECT THREADS. EXCEPT INCOMPLETE THREADS NOT TO ENTER FILLET RADIUS.

NOTE: (1) SHANK SHALL BE STRAIGHT WITHIN .003 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 DOUBLE HEXAGON O.D. SHALL BE WITHIN .015 FIR.

**MATERIAL:** CORROSION AND HEAT RESISTANT STEEL AMS 5735.

MANUFACTURING SPECIFICATION: AMS 7478 EXCEPT HEADS TO BE FORMED BY HOT OR COLD UPSETTING

PART SUBJECT TO FLUORESCENT PENETRANT INSPECTION PER AMS 2645

SURFACE ROUGHNESS: MIL-STD-10 UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES.

BREAK SHARP EDGES .003-.015 UNLESS OTHERWISE SPECIFIED.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED; TOLERANCES; LINEAR DIMENSIONS  $\pm .010$ , ANGULAR DIMENSIONS  $\pm 5^\circ$ .  
 DO NOT USE UNASSIGNED PART NUMBERS.

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This standard, approved by the Department of the Navy, is approved by the Department of the USAF and is mandatory for use by other military activities are required to employ this standard where suitable.

REVISED (A) 23 Oct 61 (B) 17 Sep 63

11 May 61

**APPROVED**

P.A. Navy - Wep	TITLE	MILITARY STANDARD
Other Cust Air Force - ASD	BOLT, MACHINE - STEEL, DOUBLE HEXAGON, EXTENDED WASHER, .3125-24 (MIL-S-8879 THREAD) (B)	MS21281 (ASG)
PROCUREMENT SPECIFICATION NONE	SUPERSEDES:	SHEET 1 OF 1