



SECTION THRU THREAD PROFILE

SECTION TWO - INSIDE PROFILES				SECTION THREE - INSIDE PROFILES			
PART NO.	L	K +.000 -.060	APPROX. WEIGHT LB/100	PART NO.	L	K +.000 -.060	APPROX. WEIGHT LB/100
MS21278-02	.250	(a)	.43	MS21278-16	1.125	.500	.86
MS21278-03	.312	(a)	.46	MS21278-17	1.188	.562	.90
				MS21278-18	1.250	.625	.92
MS21278-04	.375	(a)	.49	MS21278-19	1.312	.688	.95
MS21278-05	.438	(a)	.52	MS21278-20	1.375	.750	.98
MS21278-06	.500	(a)	.55	MS21278-21	1.438	.812	1.01
MS21278-07	.562	(a)	.58	MS21278-22	1.500	.875	1.04
MS21278-08	.625	(a)	.61	MS21278-23	1.562	.938	1.08
MS21278-09	.688	(a)	.64	MS21278-24	1.625	1.000	1.11
MS21278-10	.750	.125	.67	MS21278-25	1.688	1.062	1.14
MS21278-11	.812	.188	.70	MS21278-26	1.750	1.125	1.17
MS21278-12	.875	.250	.74	MS21278-27	1.875	1.250	1.23
MS21278-13	.938	.312	.77	MS21278-28	2.000	1.375	1.29
MS21278-14	1.000	.375	.80				
MS21278-15	1.062	.438	.83				

(2) 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 OD SHALL BE WITHIN .010 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 8645.
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.

This standard has been approved by the BuWep (Department of the Navy) and the Department of the USAF and is mandatory for use by all activity. All other military activities are required to employ this standard where suitable.

P.A. Navy - Wep

Other Cust Air Force - ASD

TITLE

SCREW, MACHINE - STEEL, DOUBLE HEXAGON, EXTENDED WASHER, .164-36
(MIL-S-8879 THREAD)

PROCUREMENT SPECIFICATION
NONE

SUPERSEDES:

MILITARY STANDARD

MS21278 (ASG)

SHEET 1 OF 1

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REVISED A '23 OCT 61
B 17 SEP 63