

FED SUP CLASS
5305

MS9749 (ASG)

MARK PART NO. AND MANUFACTURER'S IDENTIFICATION PER AS 478 CLASS A

WRENCHING CONFIGURATION PER AS 870 FOR THIS DISTANCE

.2188 ROM

.312

.111 MIN

5° MAX

.082 MAX DIA HOLE OPTIONAL

CHAMFER 28° - 32° TO .219 DIA

.080 MIN

.030 MIN

.020 R

.010

32

32

140° MIN

.151 DIA

.141

32

35° MIN TO ROOT OF DOUBLE HEXAGON

THIS SURFACE MUST BE SQUARE WITH SHANK WITHIN .003 FIR.

MAXIMUM 2 INCOMPLETE THREADS (SEE NOTE 4)

CHAMFER .025 X 45° APPROX

.164-36 UNJF-3A MIL-S-5879

SECTION THRU THREAD PROFILE

PART NO.	L	K	APPROX WEIGHT LB/100
MS9749-02	.250	.062-.082	.239
MS9749-03	.312	.062-.082	.255
MS9749-04	.375	.062-.082	.272
MS9749-05	.438	.062-.082	.289
MS9749-06	.500	.062-.082	.305
MS9749-07	.562	.062-.082	.322
MS9749-08	.625	.062-.082	.338
MS9749-09	.688	.062-.110	.355
MS9749-10	.750	.112-.172	.371
MS9749-11	.812	.174-.234	.388
MS9749-12	.875	.237-.297	.404
MS9749-13	.938	.300-.360	.421
MS9749-14	1.000	.362-.422	.438
MS9749-15	1.062	.424-.484	.454
MS9749-16	1.125	.487-.547	.471
MS9749-17	1.188	.550-.610	.488
MS9749-18	1.250	.612-.672	.504
MS9749-19	1.312	.674-.734	.521
MS9749-20	1.375	.737-.797	.537
MS9749-21	1.438	.800-.860	.554
MS9749-22	1.500	.862-.922	.571
MS9749-23	1.562	.924-.984	.587
MS9749-24	1.625	.987-1.047	.604
MS9749-25	1.688	1.050-1.110	.620
MS9749-26	1.750	1.112-1.172	.637
MS9749-27	1.812	1.174-1.234	.654
MS9749-28	1.875	1.237-1.297	.670
MS9749-29	2.000	1.362-1.422	.703

- SHANK SHALL BE STRAIGHT WITHIN .003 PER INCH OF SCREW LENGTH.
- THE RUNOUT OF THREAD PD IN RELATION TO THE SHANK SHALL BE WITHIN .006 FIR.
- THE RUNOUT OF THE SHANK IN RELATION TO THE WASHER FACE DIAMETER AND DOUBLE HEXAGON OD SHALL BE WITHIN .005 FIR.
- INCOMPLETE THREADS NOT TO ENTER FILLET.
- MATERIAL: TITANIUM AMS 4957.
- HARDNESS: ROCKWELL C36-42.
- MANUFACTURING SPECIFICATION: AMS 7461, EXCEPT MATERIAL AS NOTED.
- FLUORESCENT PENETRANT INSPECTION PER AMS 264F.
- SURFACE TEXTURE: USAS B-C.1-1962. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES EXCEPT UPSET HEAD.
- 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 WAS DEVELOPED COOPERATIVELY WITH THE MILITARY SERVICES BY THE SAE AEROSPACE PART STANDARDS DIV.

P.A. USAF - 11	TITLE	MILITARY STANDARD
Other Cost	SCREW, MACHINE - DOUBLE HEXAGON EXTENDED	MS9749 (ASG)
Navy - A3	WASHER HEAD, TO SHANK, TITANIUM AMS 4957, .164-36 UNJF-3A	
PROCUREMENT SPECIFICATION	SUPERSEDES:	SHEET 1 OF 1

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PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

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USAF - 82, 85

This military standard is approved by the Department of the Air Force and the Naval Air Systems Command and is mandatory for use by these activities. All other military activities are required to employ this standard where suitable.

APPROVED 3 Mar 69 REVISED