

REV.
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SAE AS9705

FEDERAL SUPPLY CLASS
5306

RATIONALE

CORRECT THE COUNTERSINK DIMENSION FOR THE SAFETY WIRE HOLE IN THE BOLT HEAD AND UPDATE THE THREAD STANDARD.

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9705A, AMENDMENT 1, NOTICE 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL) MAY CONTINUE TO BE MANDATORY FOR DOD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

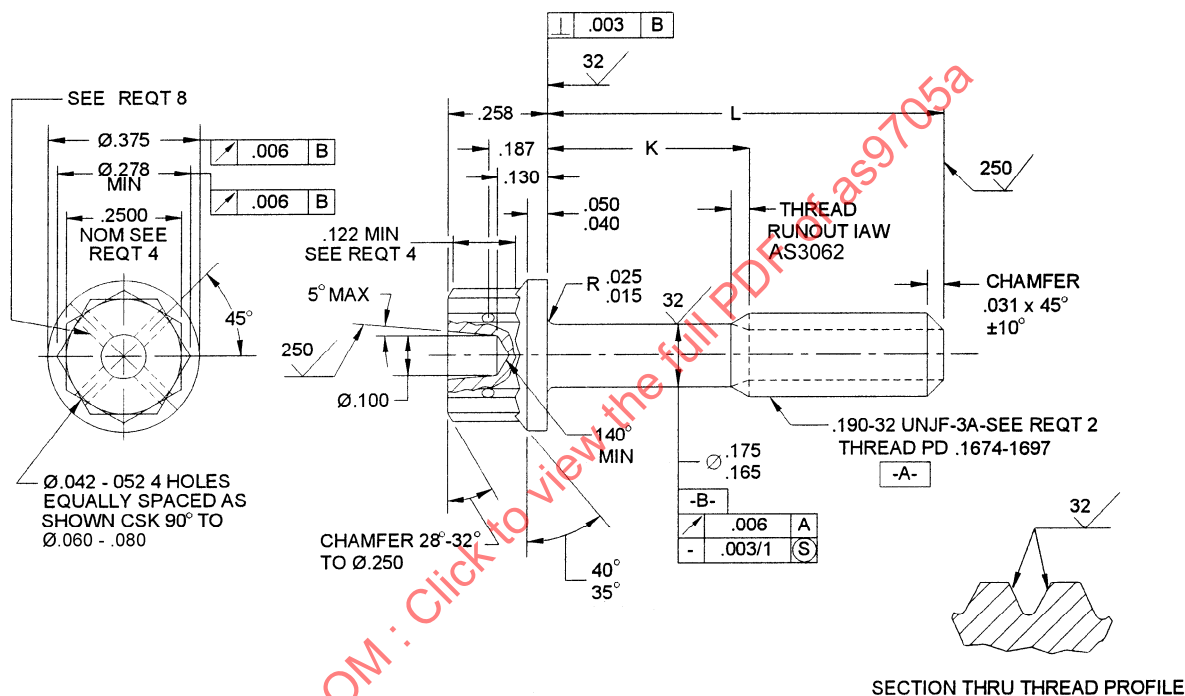


FIGURE 1

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS9705A>

THIRD ANGLE PROJECTION



CUSTODIAN: SAE E-25

PROCUREMENT SPECIFICATION: AS7471

SAE Aerospace
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AEROSPACE STANDARD

BOLT, MACHINE-DOUBLE HEXAGON, EXTENDED WASHER HEAD, DRILLED, CORROSION AND HEAT RESISTANT STEEL, .190-32 UNJF-3A

SAE AS9705
SHEET 1 OF 3

REV.
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TABLE 1 - DASH NUMBERS AND DIMENSIONS

DASH NO.	L	K	APPROX WEIGHT LB/100	DASH NO.	L	K	APPROX WEIGHT LB/100
-04	.375	.072-.092	.68	-25	1.688	.998-1.058	1.57
-05	.438	.072-.092	.73	-26	1.750	1.060-1.120	1.61
-06	.500	.072-.092	.77	-27	1.812	1.122-1.182	1.64
-07	.562	.072-.092	.81	-28	1.875	1.185-1.245	1.69
-08	.625	.072-.092	.85	-29	2.000	1.310-1.370	1.78
-09	.688	.072-.092	.90	-30	2.125	1.435-1.495	1.86
-10	.750	.072-.120	.94	-31	2.250	1.560-1.620	1.94
-11	.812	.122-.182	.98	-32	2.375	1.685-1.745	2.03
-12	.875	.185-.245	1.02	-33	2.500	1.810-1.870	2.11
-13	.938	.248-.308	1.06	-34	2.625	1.935-1.995	2.20
-14	1.000	.310-.370	1.10	-35	2.750	2.060-2.120	2.28
-15	1.062	.372-.432	1.15	-36	2.875	2.185-2.245	2.36
-16	1.125	.435-.495	1.19	-37	3.000	2.310-2.370	2.45
-17	1.188	.498-.558	1.23	-38	3.125	2.435-2.495	2.53
-18	1.250	.560-.620	1.27	-39	3.250	2.560-2.620	2.62
-19	1.312	.622-.682	1.31	-40	3.375	2.685-2.745	2.70
-20	1.375	.685-.745	1.36	-41	3.500	2.810-2.870	2.78
-21	1.438	.748-.808	1.40	-42	3.625	2.935-2.995	2.87
-22	1.500	.810-.870	1.44	-43	3.750	3.060-3.120	2.95
-23	1.562	.872-.932	1.48	-44	3.875	3.185-3.245	3.04
-24	1.625	.935-.995	1.52				

REQUIREMENTS:

1. MATERIAL: CORROSION AND HEAT RESISTANCE STEEL IN ACCORDANCE WITH AMS5708.
2. THREADS: THREADS IN ACCORDANCE WITH AS8879. INCOMPLETE THREADS NOT TO ENTER FILLET.
3. DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M-1982 (ASME PUBLICATION).
4. WRENCHING CONFIGURATION: WRENCHING CONFIGURATION IN ACCORDANCE WITH AS870-08.
5. SURFACE TEXTURE: SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED, SHALL BE 125 MICROINCHES, EXCEPT UPSET HEAD, IN ACCORDANCE WITH ANSI B46.1.
6. FLUORESCENT PENETRANT INSPECTION: FLUORESCENT PENETRANT INSPECTION PER ASTM E 1417.
7. HEAD TO SHANK FILLET: HEAD TO SHANK FILLET SHALL BE COLD ROLLED AFTER HEAT TREATMENT TO REMOVE ALL VISUAL EVIDENCE OF GRINDING OR TOOL MARKS EXCEPT DASH NUMBER SIZES -12 AND SMALLER.
8. MARKING: MARK PART NUMBER AND MANUFACTURER'S IDENTIFICATION IN ACCORDANCE WITH AS478, CLASS A.
9. TOLERANCES: UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE FOR LINEAR DIMENSIONS ± 0.10 , ANGULAR DIMENSIONS $\pm 5^\circ$.
10. EDGES: BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
11. MANUFACTURING SPECIFICATION: AS7471.