

FED.SUPPLY CLASS

5310

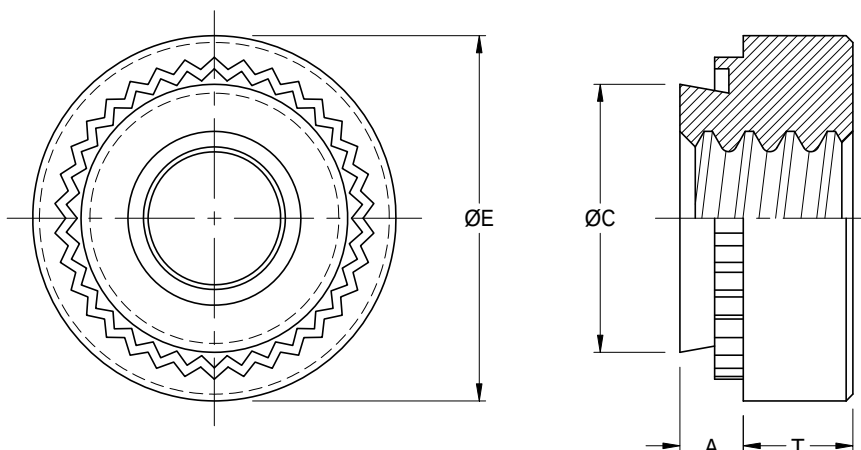


TABLE I – DIMENSIONS

DASH NO			THREAD -2B	A +.000 -.005	SHEET THICKNESS	HOLE DIA IN SHEET +.003 -.000	ØC +.000 -.005	ØE ±.015	T ±.015	CENTER OF HOLE TO SHEET EDGE-MIN
CARBON STEEL	CRES	AL ALLOY								
1	1C	1A	.0860-56 UNC	.030	.032-.039	.166	.165	.250	.062	.188
2	2C	2A		.038	.040-UP					
3	3C		.1120-40 UNC	.030	.032-.039	.166	.165	.250	.062	.188
4	4C			.038	.040-.055					
5	5C			.054	.056-UP					
		6A 7A	.1120-40 UNC	.038 .054	.040-.055 .056-UP	.1875	.187	.250	.094	.219
8	8C		.1380-32 UNC	.038	.040-.055	.1875	.187	.281	.062	.219
9	9C			.054	.056-UP					
		10A 11A	.1380-32 UNC	.038 .054	.040-.055 .056-UP	.213	.212	.281	.094	.266
12	12C		.1640-32 UNC	.038	.040-.055	.213	.212	.312	.094	.266
13	13C			.054	.056-UP					
		14A 15A	.1640-32 UNC	.038 .054	.040-.055 .056-UP	.234	.233	.312	.125	.281
16	16C		.1900-32 UNF	.054	.056-.090	.250	.249	.344	.094	.281
17	17C			.087	.091-UP					
		18A	.1900-32 UNF	.054	.056-UP	.296	.295	.375	.156	.312
19	19C	19A	.2500-28 UNF	.087	.091-.124	.344	.343	.438	.172	.344
20	20C	20A		.120	.125-UP					
21	21C	21A	.3125-24 UNF	.087	.091-.124	.413	.411	.500	.234	.375
22	22C	22A		.120	.125-UP					
23	23C	23A	.3750-24 UNF	.120	.125-.249	.500	.498	.562	.266	.438
24	24C	24A		.235	.250-UP					
25	25C	25A	.5000-20 UNF	.120	.125-.249	.656	.654	.812	.359	.625
26	26C	26A		.235	.250-UP					
27	27C	27A	.2500-20 UNC	.054	.056-.090	.344	.343	.438	.172	.344
28	28C	28A		.087	.091-.124					
29	29C	29A		.120	.125-UP					

② COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MIL-N-45938/1, REVISION B. PART NUMBERS REMAIN M45938/1.

THIRD ANGLE PROJECTION		CUSTODIAN	REVISION
		NATIONAL AEROSPACE STANDARDS COMMITTEE	2
PROCUREMENT SPECIFICATION		TITLE	CLASSIFICATION PART STANDARD
NOTED		NUT, PLAIN, CLINCH (SELF-CLINCHING, ROUND)	NAS 45938-1 SHEET 1 OF 3

MATERIAL:

CARBON STEEL - HEAT TREATED TO A CASE HARDNESS 35HRC, FOR USE IN MATERIALS WITH A HARDNESS OF 85HRB MAX.
CRES - FOR USE IN MATERIALS WITH A HARDNESS OF 70HRB MAX.
ALUMINUM ALLOY - 2024-T4 FOR USE IN MATERIALS WITH A HARDNESS OF 50HRB MAX.

FINISH:

CARBON STEEL SHALL BE CADMIUM PLATED.
CRES SHALL BE CLEANED, DESCALED AND PASSIVATED IN ACCORDANCE WITH ASTM A 380.
ALUMINUM ALLOY SHALL BE PLAIN, UNFINISHED.

CODE:

CONSISTS OF M45938/1 AND A DASH NUMBER TAKEN FROM TABLE I.

EXAMPLE OF PART NUMBER:

M45938/1-1 = NUT, PLAIN, CLINCH, CARBON STEEL, .0860-56 UNC-2B THREAD.

NOTES:

- (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (2) THREADS SHALL BE IN ACCORDANCE WITH MIL-S-7742.
- (3) PUSH-OUT AND TORQUE-OUT VALUES SHALL BE AS SPECIFIED IN TABLE II WHEN PROPERLY INSTALLED IN THE FOLLOWING MATERIALS.
CARBON STEEL NUTS IN SHEET HAVING A HARDNESS OF 85HRB MAX.
CORROSION-RESISTANT STEEL NUTS IN SHEET HAVING A HARDNESS OF 70HRB MAX.
ALUMINUM ALLOY NUTS IN SHEET HAVING A HARDNESS OF 50HRB MAX.
- (4) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (5) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (6) REMOVE ALL BURRS AND SHARP EDGES.
- (7) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- (8) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (9) RECOMMENDED INSTALLATION PROCEDURE:
 - a. PUNCH OR DRILL HOLE.
 - b. LOCATE NUT SHANK OR PILOT SQUARELY IN THE HOLE.
 - c. APPLY CLINCHING FORCE BETWEEN TWO PARALLEL FLAT SURFACES TO TOTALLY EMBED CLINCHING RING AROUND THE ENTIRE CIRCUMFERENCE. THE SHOULDER SHALL CONTACT THE STRUCTURE FOR A FULL 360°, BUT SHALL HAVE NO PART OF THE SHOULDER IMBEDDED IN THE STRUCTURE. THE BOTTOM OF THE SHANK SHALL NOT PROTRUDE FROM THE UNDERSIDE OF THE STRUCTURE.
 - d. INSTALL SCREW OR BOLT FROM PILOT SIDE OF NUT.

REVISION

2

NASM45938/1s

SHEET 2

② COMPLETELY REVISED