

MS20470 REV H ■ 9999912 0086366 07T ■

THE REQUIREMENTS FOR ACQUIRING PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DOORS SPECIFIED IN THE SOLICITATION: MIL-R-5674

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENT, AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

Form Approved
OMB No. 0704-0188

MATERIAL IDENTIFICATION MARKS

1100(A)
PLAN

5056(B)
RAISED CROSS

2117(AD)
DIMPLED .020 MAX

2024(DD)
RAISED DOUBLE DASH
(INACTIVE)

2017(D)
RAISED TEAT
(INACTIVE)
(SEE REQ'T 9)

7050(E)
INDENTED RING
(SEE REQ'T 7)

2219-T81(K)
INDENTED SQUARE
(INACTIVE)

2219-T82(J)
INDENTED TRIANGLE

45Cb(T)
INDENTED DIAMOND

TABLE I. RIVET DIMENSIONS.

NOM DIA	#D	#A	B	C	E	F	R	S	T RAD
1/16	.062	.125 ± .006	.094	.027	.031	.015	.054	.016	.019
3/32	.094	.187 ± .009	.141	.040	.046	.023	.082	.023	.029
1/8	.125	.250 ± .012	.188	.054	.062	.031	.108	.031	.039
5/32	.156 +.003	.312 ± .016	.234	.067	.078	.039	.135	.039	.049
3/16	.187 - .001	.375 ± .019	.281	.080	.093	.046	.164	.047	.059
7/32	.219 1/	.437 ± .022	.328	.093	.109	.054	.193	.054	.069
1/4	.250	.500 ± .025	.375	.107	.125	.062	.217	.062	.078
5/16	.312	.625 ± .031	.469	.133	.156	.078	.272	.078	.098
3/8	.375	.750 ± .037	.562	.161	.187	.093	.328	.094	.117

1/ TOLERANCE CHANGE APPLIES TO RIVETS MANUFACTURED AFTER 2 JULY 1990.

(H) DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTIVITY: NAVY-AS CUSTODIANS: ARMY-AR NAVY- AIR FORCE-99 DLA- REVIEW: AV, GL, IS, ME, MI, OS, 82 USER: MC PROJECT NUMBER: 5320-0806	MILITARY SPECIFICATION SHEET TITLE RIVET, SOLID UNIVERSAL HEAD, ALUMINUM ALLOY AND TITANIUM COLUMBIUM ALLOY	SPECIFICATION SHEET NUMBER MS20470 14 SEP 93 REV H SUPERSEDING MS20470 G 28 JAN 91 AMSC- N/A FSC 5320
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.		Page <u>1</u> of <u>5</u>

DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE

MS20470 REV H ■ 9999912 00&6367 T06 ■

Form Approved
 OMB No. 0704-0186

REQUIREMENTS:

- RIVETS MAY BE FURNISHED WITH PLAIN ENDS, OR ENDS CHAMFERED UP TO 20° TO THE "S" DIMENSION, OR MAY HAVE A RADIUS TO THE "T" DIMENSION.
- MATERIAL:** ALUMINUM 1100-F (A91100) AND ALUMINUM ALLOYS 2017-T4 (A92017), 2024-T4 (A92024), 2117-T4 (A92117), 2219-T81 (A92119), 2219-T82 (A92119), 5056-H32 (A95056), 7050-T73 (A97050) PER QQ-A-430 AND TITANIUM COLUMBIUM ALLOY 45Cb (R58450) PER AMS 4982.
- FOR PART NUMBERS OF RIVET LENGTH NOT LISTED SHOW 1/16 INCREMENT REQUIRED.
- ADDITIONAL 1/32 LENGTH INCREMENTS MAY BE OBTAINED BY ADDING -5 AFTER THE LAST DIGIT OR LETTER IN PART NUMBER.
- EXAMPLE OF PART NUMBER:**

MS20470 AD 4 - 12 A -5 = ALUMINUM ALLOY 2117-T4 RIVET, 1/8 DIA, (3/4 + 1/32) LONG, ANODIZE CLEAR.
 -5 INDICATES ADDITIONAL 1/32 INCH INCREMENT IN LENGTH.

- NO CODE INDICATES CHEMICAL SURFACE TREATMENT PER MIL-C-5541, CLASS 1A, GOLD/YELLOW.
- "A" INDICATES ANODIZE PER MIL-A-8625, TYPE II, CLASS 1, CLEAR.
- "D" INDICATES ANODIZE PER MIL-A-8625, TYPE II, CLASS 1, DICHROMATE SEAL.
- "F" INDICATES OPTION OF ANY FINISH EXCEPT AS NOTED BELOW.
- "S" INDICATES CHEMICAL SURFACE TREATMENT PER MIL-C-5541, CLASS 1A, CLEAR.
- "N" INDICATES ANODIZE PER MIL-A-8625, TYPE II, CLASS 2.

NOTE: FOR 1100 AL, CHEMICAL SURFACE TREATMENT PER MIL-C-5541, CLASS 1A, GOLD/YELLOW (NO CODE).

FOR 2024 AL, ANODIZE PER MIL-A-8625, TYPE II, CLASS 1, DICHROMATE SEAL OR CLEAR OR CLASS 2 WITH SPECIFIED COLOR (A, D OR N CODE).
 FOR 2017, 2117, 2219, 5056 AND 7050 AL, CHEMICAL FINISH SURFACE TREATMENT PER MIL-C-5541, CLASS 1A, CLEAR OR GOLD/YELLOW (CLEAR FILM SHALL BE USED ONLY WHEN AUTHORIZED) OR ANODIZE PER MIL-A-8625, TYPE II, CLASS 1 (CLEAR OR DICHROMATE SEAL) OR CLASS 2.

FOR TITANIUM COLUMBIUM, NO FINISH REQUIRED.

INDICATES LENGTH IN 1/16 OF AN INCH.
 INDICATES DIAMETER IN 1/32 OF AN INCH.

- "A" INDICATES 1100-F ALUMINUM
 - "AD" INDICATES 2117-T4 AL ALLOY
 - "B" INDICATES 5056-H32 AL ALLOY
 - "D" INDICATES 2017-T4 AL ALLOY
 - "DD" INDICATES 2024-T4 AL ALLOY
 - "K" INDICATES 2219-T81 AL ALLOY
 - "E" INDICATES 7050-T73 AL ALLOY
 - "T" INDICATES TITANIUM COLUMBIUM ALLOY 45Cb
 - "J" INDICATES 2219-T82 AL ALLOY
- } INACTIVE FOR NEW DESIGN

BASIC MS NUMBER

- OUTER DIAMETER OF INDENTED RING (7050 RIVETS) SHALL BE A MAXIMUM OF 75% OF RIVET SHANK DIAMETER. THE MAXIMUM DEPTH OF THE RING SHALL BE .010 INCH. INDENTED RING IS REQUIRED ON 7050 RIVETS MANUFACTURED AFTER 2 JULY 1990.
- MANUFACTURER'S IDENTIFICATION IS REQUIRED TO BE DEPRESSED ON RIVET HEADS WITH A SHANK DIAMETER .125 INCH AND LARGER MANUFACTURED AFTER 2 JULY 1990.
- ALUMINUM ALLOY 2017-T4 RIVETS WITH 33KSI MIN. UNDRIVEN SHEAR STRENGTH ARE ACCEPTABLE UNTIL 2 JULY 1990.

NOTES:

- DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ± .010.
- INTERCHANGEABILITY RELATION WITH AN470 RIVETS: MS20470 RIVETS OF LIKE DASH NUMBERS ARE UNIVERSALLY, FUNCTIONALLY, AND DIMENSIONABLY INTERCHANGEABLE.
- IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
- REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

PREPARING ACTIVITY:NAVY-AS CUSTODIANS: ARMY-AR NAVY- AIR FORCE-99 DLA- REVIEW:AV, GL, IS, ME, MI, OS, 82 USER: MC PROJECT NUMBER: 5320-0806 DISTRIBUTION STATEMENT	MILITARY SPECIFICATION SHEET TITLE RIVET, SOLID UNIVERSAL HEAD, ALUMINUM ALLOY AND TITANIUM COLUMBIUM ALLOY	SPECIFICATION SHEET NUMBER MS20470 14 SEP 93 REV H	
		SUPERSEDING MS20470 G 28 JAN 91	AMSC- N/A FSC 5320
A. Approved for public release; distribution is unlimited.		Page <u>2</u> of <u>5</u>	

DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION: MIL-R-5674

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

MS20470 REV H

9999912 0086368 942

Form Approved
 OMB No. 0704-0188

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDS SPECIFIED IN THE SOLICITATION: MIL-R-5674

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

ALUMINUM 1100-F	ALUMINUM 2117-T4	ALUMINUM 5056-H32	ALUMINUM 2017-T4 INACTIVE	ALUMINUM 2024-T4 INACTIVE	ALUMINUM 7050-T73	ALUMINUM 2219-TB1 INACTIVE	TITANIUM 45 Cb	ALUMINUM 2219-T62	LENGTH
DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	
1/16 NOM DIA.									
A2-3	AD2-3	B2-3	D2-3	DD2-3	E2-3	K2-3	T2-3	J2-3	.188
A2-4	AD2-4	B2-4	D2-4	DD2-4	E2-4	K2-4	T2-4	J2-4	.250
A2-5	AD2-5	B2-5	D2-5	DD2-5	E2-5	K2-5	T2-5	J2-5	.312
A2-6	AD2-6	B2-6	D2-6	DD2-6	E2-6	K2-6	T2-6	J2-6	.375
A2-7	AD2-7	B2-7	D2-7	DD2-7	E2-7	K2-7	T2-7	J2-7	.438
A2-8	AD2-8	B2-8	D2-8	DD2-8	E2-8	K2-8	T2-8	J2-8	.500
A2-9	AD2-9	B2-9	D2-9	DD2-9	E2-9	K2-9	T2-9	J2-9	.562
A2-10	AD2-10	B2-10	D2-10	DD2-10	E2-10	K2-10	T2-10	J2-10	.625
A2-12	AD2-12	B2-12	D2-12	DD2-12	E2-12	K2-12	T2-12	J2-12	.750
A2-14	AD2-14	B2-14	D2-14	DD2-14	E2-14	K2-14	T2-14	J2-14	.875
A2-16	AD2-16	B2-16	D2-16	DD2-16	E2-16	K2-16	T2-16	J2-16	1.000
A2-18	AD2-18	B2-18	D2-18	DD2-18	E2-18	K2-18	T2-18	J2-18	1.125
A2-20	AD2-20	B2-20	D2-20	DD2-20	E2-20	K2-20	T2-20	J2-20	1.250

ALUMINUM 1100-F	ALUMINUM 2117-T4	ALUMINUM 5056-H32	ALUMINUM 2017-T4 INACTIVE	ALUMINUM 2024-T4 INACTIVE	ALUMINUM 7050-T73	ALUMINUM 2219-TB1 INACTIVE	TITANIUM 45 Cb	ALUMINUM 2219-T62	LENGTH
DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	
3/32 NOM DIA.									
A3-3	AD3-3	B3-3	D3-3	DD3-3	E3-3	K3-3	T3-3	J3-3	.188
A3-4	AD3-4	B3-4	D3-4	DD3-4	E3-4	K3-4	T3-4	J3-4	.250
A3-5	AD3-5	B3-5	D3-5	DD3-5	E3-5	K3-5	T3-5	J3-5	.312
A3-6	AD3-6	B3-6	D3-6	DD3-6	E3-6	K3-6	T3-6	J3-6	.375
A3-7	AD3-7	B3-7	D3-7	DD3-7	E3-7	K3-7	T3-7	J3-7	.438
A3-8	AD3-8	B3-8	D3-8	DD3-8	E3-8	K3-8	T3-8	J3-8	.500
A3-9	AD3-9	B3-9	D3-9	DD3-9	E3-9	K3-9	T3-9	J3-9	.562
A3-10	AD3-10	B3-10	D3-10	DD3-10	E3-10	K3-10	T3-10	J3-10	.625
A3-12	AD3-12	B3-12	D3-12	DD3-12	E3-12	K3-12	T3-12	J3-12	.750
A3-14	AD3-14	B3-14	D3-14	DD3-14	E3-14	K3-14	T3-14	J3-14	.875
A3-16	AD3-16	B3-16	D3-16	DD3-16	E3-16	K3-16	T3-16	J3-16	1.000
A3-18	AD3-18	B3-18	D3-18	DD3-18	E3-18	K3-18	T3-18	J3-18	1.125
A3-20	AD3-20	B3-20	D3-20	DD3-20	E3-20	K3-20	T3-20	J3-20	1.250
A3-22	AD3-22	B3-22	D3-22	DD3-22	E3-22	K3-22	T3-22	J3-22	1.375

ALUMINUM 1100-F	ALUMINUM 2117-T4	ALUMINUM 5056-H32	ALUMINUM 2017-T4 INACTIVE	ALUMINUM 2024-T4 INACTIVE	ALUMINUM 7050-T73	ALUMINUM 2219-TB1 INACTIVE	TITANIUM 45 Cb	ALUMINUM 2219-T62	LENGTH
DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	
1/8 NOM DIA.									
A4-3	AD4-3	B4-3	D4-3	DD4-3	E4-3	K4-3	T4-3	J4-3	.188
A4-3-5	AD4-3-5	B4-3-5	D4-3-5	DD4-3-5	E4-3-5	K4-3-5	T4-3-5	J4-3-5	.218
A4-4	AD4-4	B4-4	D4-4	DD4-4	E4-4	K4-4	T4-4	J4-4	.250
A4-4-5	AD4-4-5	B4-4-5	D4-4-5	DD4-4-5	E4-4-5	K4-4-5	T4-4-5	J4-4-5	.281
A4-5	AD4-5	B4-5	D4-5	DD4-5	E4-5	K4-5	T4-5	J4-5	.312
A4-6	AD4-6	B4-6	D4-6	DD4-6	E4-6	K4-6	T4-6	J4-6	.375
A4-7	AD4-7	B4-7	D4-7	DD4-7	E4-7	K4-7	T4-7	J4-7	.438
A4-8	AD4-8	B4-8	D4-8	DD4-8	E4-8	K4-8	T4-8	J4-8	.500
A4-9	AD4-9	B4-9	D4-9	DD4-9	E4-9	K4-9	T4-9	J4-9	.562
A4-10	AD4-10	B4-10	D4-10	DD4-10	E4-10	K4-10	T4-10	J4-10	.625
A4-11	AD4-11	B4-11	D4-11	DD4-11	E4-11	K4-11	T4-11	J4-11	.687
A4-12	AD4-12	B4-12	D4-12	DD4-12	E4-12	K4-12	T4-12	J4-12	.750
A4-14	AD4-14	B4-14	D4-14	DD4-14	E4-14	K4-14	T4-14	J4-14	.875
A4-16	AD4-16	B4-16	D4-16	DD4-16	E4-16	K4-16	T4-16	J4-16	1.000
A4-18	AD4-18	B4-18	D4-18	DD4-18	E4-18	K4-18	T4-18	J4-18	1.125
A4-20	AD4-20	B4-20	D4-20	DD4-20	E4-20	K4-20	T4-20	J4-20	1.250
A4-22	AD4-22	B4-22	D4-22	DD4-22	E4-22	K4-22	T4-22	J4-22	1.375
A4-24	AD4-24	B4-24	D4-24	DD4-24	E4-24	K4-24	T4-24	J4-24	1.500

PREPARING ACTMITY:NAVY-AS CUSTODIANS: ARMY-AR NAVY- AIR FORCE-99 DLA- REVIEW:AV, GL, IS, ME, MI, OS, 82 USER: MC PROJECT NUMBER: 5320-0805	MILITARY SPECIFICATION SHEET TITLE RIVET, SOLID UNIVERSAL HEAD, ALUMINUM ALLOY AND TITANIUM- COLUMBIUM ALLOY	SPECIFICATION SHEET NUMBER MS20470 14 SEP 93 REV H SUPERSEDING MS20470 G 28 JAN 91 AMSC- N/A FSC 5320
---	--	---

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited. Page 3 of 5

DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE

MS20470 REV H ■■■ 9999912 0086369 889 ■■■

Form Approved
 OMB No. 0704-0188

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE ADDRESS SPECIFIED IN THE SOLICITATION: MIL-R-5674

 THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

ALUMINUM 1100-F	ALUMINUM 2117-T4	ALUMINUM 5056-H32	ALUMINUM 2017-T4 INACTIVE	ALUMINUM 2024-T4 INACTIVE	ALUMINUM 7050-T73	ALUMINUM 2219-T81 INACTIVE	ALUMINUM 2219-T82	TITANIUM 45 Cb	LENGTH
DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	
5/32 NOM DIA									
A5-4	AD5-4	B5-4	D5-4	DD5-4	E5-4	K5-4	J5-4	T5-4	.250
A5-5	AD5-5	B5-5	D5-5	DD5-5	E5-5	K5-5	J5-5	T5-5	.312
A5-6	AD5-6	B5-6	D5-6	DD5-6	E5-6	K5-6	J5-6	T5-6	.375
A5-7	AD5-7	B5-7	D5-7	DD5-7	E5-7	K5-7	J5-7	T5-7	.438
A5-8	AD5-8	B5-8	D5-8	DD5-8	E5-8	K5-8	J5-8	T5-8	.500
A5-9	AD5-9	B5-9	D5-9	DD5-9	E5-9	K5-9	J5-9	T5-9	.582
A5-10	AD5-10	B5-10	D5-10	DD5-10	E5-10	K5-10	J5-10	T5-10	.625
	AD5-11					K5-11	J5-11		.687
A5-12	AD5-12	B5-12	D5-12	DD5-12	E5-12	K5-12	J5-12	T5-12	.750
A5-14	AD5-14	B5-14	D5-14	DD5-14	E5-14	K5-14	J5-14	T5-14	.875
A5-16	AD5-16	B5-16	D5-16	DD5-16	E5-16	K5-16	J5-16	T5-16	1.000
	AD5-17					K5-17			1.062
A5-18	AD5-18	B5-18	D5-18	DD5-18	E5-18	K5-18	J5-18	T5-18	1.125
	AD5-19					K5-19	J5-19		1.187
A5-20	AD5-20	B5-20	D5-20	DD5-20	E5-20	K5-20	J5-20	T5-20	1.250
A5-22	AD5-22	B5-22	D5-22	DD5-22	E5-22	K5-22	J5-22	T5-22	1.375
A5-24	AD5-24	B5-24	D5-24	DD5-24	E5-24	K5-24	J5-24	T5-24	1.500
A5-28	AD5-28	B5-28	D5-28	DD5-28	E5-28	K5-28	J5-28	T5-28	1.750

ALUMINUM 1100-F	ALUMINUM 2117-T4	ALUMINUM 5056-H32	ALUMINUM 2017-T4 INACTIVE	ALUMINUM 2024-T4 INACTIVE	ALUMINUM 7050-T73	ALUMINUM 2219-T81 INACTIVE	ALUMINUM 2219-T82	TITANIUM 45 Cb	LENGTH
DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	
3/16 NOM DIA									
A6-4	AD6-4	B6-4	D6-4	DD6-4	E6-4	K6-4	J6-4	T6-4	.187
A6-5	AD6-5	B6-5	D6-5	DD6-5	E6-5	K6-5	J6-5	T6-5	.250
A6-6	AD6-6	B6-6	D6-6	DD6-6	E6-6	K6-6	J6-6	T6-6	.312
A6-8	AD6-8	B6-8	D6-8	DD6-8	E6-8	K6-8	J6-8	T6-8	.375
A6-7	AD6-7	B6-7	D6-7	DD6-7	E6-7	K6-7	J6-7	T6-7	.438
A6-8	AD6-8	B6-8	D6-8	DD6-8	E6-8	K6-8	J6-8	T6-8	.500
A6-9	AD6-9	B6-9	D6-9	DD6-9	E6-9	K6-9	J6-9	T6-9	.582
A6-10	AD6-10	B6-10	D6-10	DD6-10	E6-10	K6-10	J6-10	T6-10	.625
	AD6-11					K6-11			.687
A6-12	AD6-12	B6-12	D6-12	DD6-12	E6-12	K6-12	J6-12	T6-12	.750
	AD6-13					K6-13			.812
A6-14	AD6-14	B6-14	D6-14	DD6-14	E6-14	K6-14	J6-14	T6-14	.875
A6-16	AD6-16	B6-16	D6-16	DD6-16	E6-16	K6-16	J6-16	T6-16	1.000
A6-18	AD6-18	B6-18	D6-18	DD6-18	E6-18	K6-18	J6-18	T6-18	1.125
A6-20	AD6-20	B6-20	D6-20	DD6-20	E6-20	K6-20	J6-20	T6-20	1.250
A6-22	AD6-22	B6-22	D6-22	DD6-22	E6-22	K6-22	J6-22	T6-22	1.375
A6-24	AD6-24	B6-24	D6-24	DD6-24	E6-24	K6-24	J6-24	T6-24	1.500
A6-28	AD6-28	B6-28	D6-28	DD6-28	E6-28	K6-28	J6-28	T6-28	1.750
A6-32	AD6-32	B6-32	D6-32	DD6-32	E6-32	K6-32	J6-32	T6-32	2.000
	AD6-36								2.250
A6-40	AD6-40	B6-40	D6-40	DD6-40	E6-40	K6-40	J6-40	T6-40	2.500
A6-48	AD6-48	B6-48	D6-48	DD6-48	E6-48	K6-48	J6-48	T6-48	3.000

ALUMINUM 1100-F	ALUMINUM 2117-T4	ALUMINUM 5056-H32	ALUMINUM 2017-T4 INACTIVE	ALUMINUM 2024-T4 INACTIVE	ALUMINUM 7050-T73	ALUMINUM 2219-T81 INACTIVE	ALUMINUM 2219-T82	TITANIUM 45 Cb	LENGTH
DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	
7/32 NOM DIA									
A7-6	AD7-6	B7-6	D7-6	DD7-6	E7-6	K7-6	J7-6	T7-6	.375
A7-7	AD7-7	B7-7	D7-7	DD7-7	E7-7	K7-7	J7-7	T7-7	.438
A7-8	AD7-8	B7-8	D7-8	DD7-8	E7-8	K7-8	J7-8	T7-8	.500
A7-9	AD7-9	B7-9	D7-9	DD7-9	E7-9	K7-9	J7-9	T7-9	.582
A7-10	AD7-10	B7-10	D7-10	DD7-10	E7-10	K7-10	J7-10	T7-10	.625
A7-12	AD7-12	B7-12	D7-12	DD7-12	E7-12	K7-12	J7-12	T7-12	.750
A7-14	AD7-14	B7-14	D7-14	DD7-14	E7-14	K7-14	J7-14	T7-14	.875
A7-16	AD7-16	B7-16	D7-16	DD7-16	E7-16	K7-16	J7-16	T7-16	1.000
A7-18	AD7-18	B7-18	D7-18	DD7-18	E7-18	K7-18	J7-18	T7-18	1.125
A7-20	AD7-20	B7-20	D7-20	DD7-20	E7-20	K7-20	J7-20	T7-20	1.250
A7-22	AD7-22	B7-22	D7-22	DD7-22	E7-22	K7-22	J7-22	T7-22	1.375
A7-24	AD7-24	B7-24	D7-24	DD7-24	E7-24	K7-24	J7-24	T7-24	1.500
A7-28	AD7-28	B7-28	D7-28	DD7-28	E7-28	K7-28	J7-28	T7-28	1.750
A7-32	AD7-32	B7-32	D7-32	DD7-32	E7-32	K7-32	J7-32	T7-32	2.000
A7-40	AD7-40	B7-40	D7-40	DD7-40	E7-40	K7-40	J7-40	T7-40	2.500
A7-48	AD7-48	B7-48	D7-48	DD7-48	E7-48	K7-48	J7-48	T7-48	3.000
A7-56	AD7-56	B7-56	D7-56	DD7-56	E7-56	K7-56	J7-56	T7-56	3.500

PREPARING ACTIVITY: NAVY-AS CUSTODIANS: ARMY-AR NAVY- AIR FORCE-99 DLA- REVIEW: AV, GL, IS, ME, MI, OS, 82 USER: MC PROJECT NUMBER: 5320-0806	MILITARY SPECIFICATION SHEET TITLE RIVET, SOLID UNIVERSAL HEAD, ALUMINUM ALLOY AND TITANIUM COLUMBIUM ALLOY	SPECIFICATION SHEET NUMBER MS20470 14 SEP 93 REV H SUPERSEDING MS20470 G 28 JAN 91 AMSC- N/A FSC 5320
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.		Page <u>4</u> of <u>5</u>

DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE

MS20470 REV H ■■■ 9999912 0086370 5T0 ■■■

Form Approved
 OMB No. 0704-0188

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DOORS SPECIFIED IN THE SOLICITATION: MIL-R-5874

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

ALUMINUM 1100-F	ALUMINUM 2117-T4	ALUMINUM 5056-H32	ALUMINUM 2017-T4 INACTIVE	ALUMINUM 2024-T4 INACTIVE	ALUMINUM 7050-T73	ALUMINUM 2219-T81 INACTIVE	ALUMINUM 2219-T62	TITANIUM 45 Cb	LENGTH
DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	
1/4 NOM DIA.									
AB-6	ADB-6	BB-6	DB-6	DOB-6	EB-6	KB-6	JB-6	TB-6	.375
AB-7	ADB-7	BB-7	DB-7	DOB-7	EB-7	KB-7	JB-7	TB-7	.438
AB-8	ADB-8	BB-8	DB-8	DOB-8	EB-8	KB-8	JB-8	TB-8	.500
AB-9	ADB-9	BB-9	DB-9	DOB-9	EB-9	KB-9	JB-9	TB-9	.562
AB-10	ADB-10	BB-10	DB-10	DOB-10	EB-10	KB-10	JB-10	TB-10	.625
AB-12	ADB-12	BB-12	DB-12	DOB-12	EB-12	KB-12	JB-12	TB-12	.750
AB-14	ADB-14	BB-14	DB-14	DOB-14	EB-14	KB-14	JB-14	TB-14	.875
AB-16	ADB-16	BB-16	DB-16	DOB-16	EB-16	KB-16	JB-16	TB-16	1.000
AB-18	ADB-18	BB-18	DB-18	DOB-18	EB-18	KB-18	JB-18	TB-18	1.125
AB-20	ADB-20	BB-20	DB-20	DOB-20	EB-20	KB-20	JB-20	TB-20	1.250
AB-22	ADB-22	BB-22	DB-22	DOB-22	EB-22	KB-22	JB-22	TB-22	1.375
AB-24	ADB-24	BB-24	DB-24	DOB-24	EB-24	KB-24	JB-24	TB-24	1.500
AB-26	ADB-26	BB-26	DB-26	DOB-26	EB-26	KB-26	JB-26	TB-26	1.750
AB-28	ADB-28	BB-28	DB-28	DOB-28	EB-28	KB-28	JB-28	TB-28	2.000
AB-32	ADB-32	BB-32	DB-32	DOB-32	EB-32	KB-32	JB-32	TB-32	2.500
AB-40	ADB-40	BB-40	DB-40	DOB-40	EB-40	KB-40	JB-40	TB-40	3.000
AB-48	ADB-48	BB-48	DB-48	DOB-48	EB-48	KB-48	JB-48	TB-48	3.500
AB-56	ADB-56	BB-56	DB-56	DOB-56	EB-56	KB-56	JB-56	TB-56	3.500

ALUMINUM 1100-F	ALUMINUM 2117-T4	ALUMINUM 5056-H32	ALUMINUM 2017-T4 INACTIVE	ALUMINUM 2024-T4 INACTIVE	ALUMINUM 7050-T73	ALUMINUM 2219-T81 INACTIVE	ALUMINUM 2219-T82	TITANIUM 45 Cb	LENGTH
DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	
5/16 NOM DIA.									
A10-8	AD10-8	B10-8	D10-8	DD10-8	E10-8	K10-8	J10-8	T10-8	.500
A10-9	AD10-9	B10-9	D10-9	DD10-9	E10-9	K10-9	J10-9	T10-9	.562
A10-10	AD10-10	B10-10	D10-10	DD10-10	E10-10	K10-10	J10-10	T10-10	.625
A10-12	AD10-12	B10-12	D10-12	DD10-12	E10-12	K10-12	J10-12	T10-12	.750
A10-14	AD10-14	B10-14	D10-14	DD10-14	E10-14	K10-14	J10-14	T10-14	.875
A10-16	AD10-16	B10-16	D10-16	DD10-16	E10-16	K10-16	J10-16	T10-16	1.000
A10-18	AD10-18	B10-18	D10-18	DD10-18	E10-18	K10-18	J10-18	T10-18	1.125
A10-20	AD10-20	B10-20	D10-20	DD10-20	E10-20	K10-20	J10-20	T10-20	1.250
A10-22	AD10-22	B10-22	D10-22	DD10-22	E10-22	K10-22	J10-22	T10-22	1.375
A10-24	AD10-24	B10-24	D10-24	DD10-24	E10-24	K10-24	J10-24	T10-24	1.500
A10-26	AD10-26	B10-26	D10-26	DD10-26	E10-26	K10-26	J10-26	T10-26	1.750
A10-32	AD10-32	B10-32	D10-32	DD10-32	E10-32	K10-32	J10-32	T10-32	2.000
A10-40	AD10-40	B10-40	D10-40	DD10-40	E10-40	K10-40	J10-40	T10-40	2.500
A10-48	AD10-48	B10-48	D10-48	DD10-48	E10-48	K10-48	J10-48	T10-48	3.000
A10-56	AD10-56	B10-56	D10-56	DD10-56	E10-56	K10-56	J10-56	T10-56	3.500
A10-64	AD10-64	B10-64	D10-64	DD10-64	E10-64	K10-64	J10-64	T10-64	4.000

ALUMINUM 1100-F	ALUMINUM 2117-T4	ALUMINUM 5056-H32	ALUMINUM 2017-T4 INACTIVE	ALUMINUM 2024-T4 INACTIVE	ALUMINUM 7050-T73	ALUMINUM 2219-T81 INACTIVE	ALUMINUM 2219-T62	TITANIUM 45 Cb	LENGTH
DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	
3/16 NOM DIA.									
A12-10	AD12-10	B12-10	D12-10	DD12-10	E12-10	K12-10	J12-10	T12-10	.625
A12-12	AD12-12	B12-12	D12-12	DD12-12	E12-12	K12-12	J12-12	T12-12	.750
A12-14	AD12-14	B12-14	D12-14	DD12-14	E12-14	K12-14	J12-14	T12-14	.875
A12-16	AD12-16	B12-16	D12-16	DD12-16	E12-16	K12-16	J12-16	T12-16	1.000
A12-18	AD12-18	B12-18	D12-18	DD12-18	E12-18	K12-18	J12-18	T12-18	1.125
A12-20	AD12-20	B12-20	D12-20	DD12-20	E12-20	K12-20	J12-20	T12-20	1.250
A12-22	AD12-22	B12-22	D12-22	DD12-22	E12-22	K12-22	J12-22	T12-22	1.375
A12-24	AD12-24	B12-24	D12-24	DD12-24	E12-24	K12-24	J12-24	T12-24	1.500
A12-26	AD12-26	B12-26	D12-26	DD12-26	E12-26	K12-26	J12-26	T12-26	1.750
A12-32	AD12-32	B12-32	D12-32	DD12-32	E12-32	K12-32	J12-32	T12-32	2.000
A12-40	AD12-40	B12-40	D12-40	DD12-40	E12-40	K12-40	J12-40	T12-40	2.500
A12-48	AD12-48	B12-48	D12-48	DD12-48	E12-48	K12-48	J12-48	T12-48	3.000
A12-56	AD12-56	B12-56	D12-56	DD12-56	E12-56	K12-56	J12-56	T12-56	3.500
A12-64	AD12-64	B12-64	D12-64	DD12-64	E12-64	K12-64	J12-64	T12-64	4.000

PREPARING ACTMITY: NAVY-AS CUSTODIANS: ARMY-AR NAVY- AIR FORCE-99 DLA- REVIEW: AV, GL, IS, ME, MI, OS, 82 USER: MC PROJECT NUMBER: 5320-0806 DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.	MILITARY SPECIFICATION SHEET TITLE RIVET, SOLID UNIVERSAL HEAD, ALUMINUM ALLOY AND TITANIUM COLUMBIUM ALLOY	SPECIFICATION SHEET NUMBER MS20470 14 SEP 93 REV H SUPERSEDING MS20470 G 28 JAN 91 AMSC- N/A FSC 8320
		Page <u>5</u> of <u>5</u>

DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE