INCH-POUND

A-A-59430 20 April 1999

COMMERCIAL ITEM DESCRIPTION

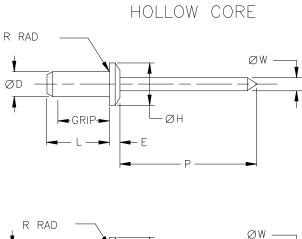
RIVETS, BLIND, NONSTRUCTURAL, RETAINED MANDREL, CLOSED-END, DOMED HEAD, ALUMINUM ALLOY

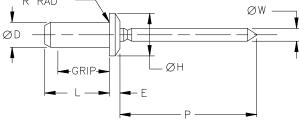
This General Services Administration has authorized the use of this Commercial Item Description for all Federal agencies.

1. <u>SCOPE</u>: This Commercial Item Description (CID) covers the requirements for pull-stem expandable blind rivets. These rivets are intended for rapid and permanent non-structural fastening applications in which access is available to one side only.

2. SALIENT CHARACTERISTICS:

2.1 Blind rivets furnished under this CID shall conform to the materials, strengths, and dimensions as specified in Table I, II, and III and as shown in Figure 1 below.





FILLED CORE

FIGURE 1. RIVETS

BENEFICIAL COMMENTS, RECOMMENDATIONS, ADDITIONS, DELETIONS, CLARIFICATIONS, ETC., AND DATA WHICH MAY IMPROVE THIS DOCUMENT SHOULD BE SENT TO: DEFENSE INDUSTRIAL SUPPLY CENTER, ATTN: DISC-AEEB, 700 ROBBINS AVENUE, PHILADELPHIA, PA 19111-5096.

TABLE I. MATERIAL COMBINATION SYMBOLS AND STRENGTHS

SYMBOL	MATERIAL COMBINATION	RIVET DIA	MINIMUM SHEAR LOAD LBS	MINIMUM TENSION LOAD LBS
	HOLLOW CORE	Diri	LBS	LDS
A	Body: 5056 Al Alloy (UNS A95056) Mandrel: 1012-1025 Steel (UNS G10120-G10250) 1045-1075 Steel (UNS G10450-G10750)	.125 .156 .188 .250	305 430 575 900	385 605 840 1100
С	Body: 1100 Al Alloy (UNS A91100) Mandrel: 2024 Al Alloy (UNS A92024)	.125 .156 .188	105 155 220	150 240 310
A	FILLED CORE Body: 5056 Al Alloy	.125 .156 .188	480 590 890	280 480 840

TABLE II. BASIC DIMENSIONS

	BASIC DIMENSIONS						
NOM			Е	R	ØW REF		RECOMMENDED
DIA	ØD	ØН	REF	MAX	MAT'I	_ CODE	HOLE SIZE
					A	С	
.125	.128	.248	.051	.025	.064	.072	.129133
	.124	.224	.031				
.156	.159	.327	.066	.025	.086	.090	.160164
	.154	.297	.046				
.188	.191	.393	.081	.025	.104	.108	.192196
	.186	.357	.061				
.250	.255	.525	.099	.025	.144	-	.257261
	.249	.475	.079				

TABLE III. DASH NUMBERS AND DIMENSIONS

MATERIAL COMBINATIONS					
HOLLOW CORE		FILLED CORE			
A	С	A	L	P MIN	RECOMMENDED GRIP RANGE
A401H A402H A403H A404H A405H A406H	C402H C403H C404H	A401F A402F A403F	.222252 .286316 .347377 .410440 .472502 .535565	1.00	.032062 .063125 .126187 .188250 .251312 .313375
A502H A503H A505H	С504Н	A502F A503F A505F	.300330 .362392 .425455 .487517	1.00	.063125 .126187 .188250 .251312
A602H A604H A606H A608H	C602H C604H C606H	A602F A604F A606F	.315345 .440470 .565595 .690720	1.00	.063125 .126250 .251375 .376500
A804H			.465505	1.00	.126250

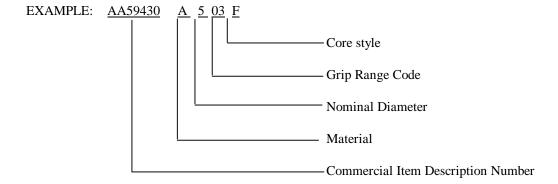
- 2.2 Materials shall be of the type and grade specified in Table I.
- 2.3 Workmanship. Rivets shall be of uniform quality and free from injurious seams and other injurious defects.
- 2.4 Single shear load. The shear test shall be performed in accordance with Test Method 20 of NASM1312, or equivalent and shall conform to the data specified in Table I.
- 2.5 Tension load. The tension test shall be performed in accordance with Test Method 8 of NASM1312, or equivalent and shall conform to the data specified in Table I.
- 2.6 Packaging requirements The requirements for packaging shall be in accordance with ASTM D3951.

3. QUALITY ASSURANCE PROVISIONS.

3.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and the quality assurance practices, and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

4. NOTES

- 4.1 All dimensions are in inches.
- 4.2 The part number shall consist of the basic Commercial Item Description Number followed by a dash number from Table III. The dash number consists of a material combination symbol from Table I, a nominal body diameter size code in thirty-seconds of an inch from Table II, a maximum grip code in sixteenths of an inch from Table III, and a core style code from Table III.



AA59430A503 Indicates -

Rivet, blind, nonstructural, retained mandrel, closed-end, domed head, 5056 (UNS A95056) aluminum alloy body, C1012-C1025 (UNS G10120-G10250) or C1045-C1075 (UNS G10450-G10750) steel mandrel; nominal body diameter size, .156; grip range, .126-.187,style; filled core.

Military Interests:

Custodians:

Army - AR Navy - AS Air Force - 99 Preparing Activity: DLA-IS

Review Activities:

Army - AV, MI Air Force - 11, 82 National Security Agency-NS (Project No. 5320-0959)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

<u>INSTRUCTIONS</u>

- 1. The preparing activity must complete blocks 1, 2, 3 and 8. In block 1, both the document number and revision letter should be given.
- The submitter of this form must complete blocks 4, 5, 6 and 7.
 The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, or to request waivers, or clarification of requirements on current contracts.

Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual.							
I RECOMMEND A CHANGE:	1. DOCUMENT NUME A-A-594		2. DOCUMENT DATE (YYMMDD) 990420				
3. DOCUMENT TITLE:							
	AL. RETAINED MAN	DREL. CLOSEI	O-END, DOMED HEAD, ALUMINUM ALLOY				
KIVEIS, BEIND, NONSIKUCIUK	ill, KETIMILED MIN	DIEL, CLOSEI	-END, BOWED HEAD, ALCOHOLOW ALEGO				
4. NATURE OF CHANGE							
5. REASON FOR RECOMMENDATI	ON						
6. SUBMITTER							
a. NAME (Last, First, Middle Initial)	b. ORGANIZATION						
c. ADDRESS (Include Zip Code)	d. TELEPHONE (Incl	ude Area Code)	7. DATE SUBMITTED (YYMMDD)				
c. ADDICEOS (iliciade zip code)	(1) Commercial	due Alea Code)	7. DATE SOBMITTED (TIMIMOD)				
	(2) AUTOVON (If	annlicable)					
8. PREPARING ACTIVITY DLA-IS	(2) AUTOVON (II	applicable)					
a. NAME		h TELEBUONE	(Include Area Code)				
Emelia Altomari			(Include Area Code) rcial (215) 697-6827				
Linella Altornari							
o ADDRESS (Include 7in Code)		(2) (DSN) 4					
c. ADDRESS (Include Zip Code)			RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:				
Defense Industrial Supply Center			lity and Standardization Office				
700 Robbins Avenue			rg Pike, Suite 1403				
Bldg. 3 (Code DISC-AESD)		Falls Church, VA 22041 TELEPHONE (703) 756-2340 AUTOVON 289-2340					
Philadelphia, PA 19111-5096		TELEPHONE	E (703) 756-2340 AUTOVON 289-2340				

DD Form 1426, OCT 89 198/290 Previous editions are obsolete.