



TOLERANCE UP TO AND INCLUDING -6 SIZE  $\pm 2-1/2^\circ$ ,  
ABOVE -6 SIZE  $\pm 1-1/2^\circ$ .

MATERIAL: TITANIUM ALLOY - BARS, SHAPES OR FORGINGS.  
STEEL - BARS, SHAPES, OR FORGINGS.  
ALUMINUM ALLOY - BARS, SHAPES, OR FORGINGS.  
CORROSION RESISTANT STEEL - BARS, SHAPES, OR FORGINGS.  
SEE PROCUREMENT SPECIFICATION.

FINISH: SEE PROCUREMENT SPECIFICATION.

NO CODE LETTER IN PART NUMBER FOR STEEL.  
ADD D AFTER DASH NUMBER FOR ALUMINUM ALLOY (EXCEPT 7075-T73)  
ADD J AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL, TYPE 304.  
ADD K AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL, TYPE 316.  
ADD S AFTER DASH NUMBER FOR CORROSION RESISTANT STEEL, TYPE 347.  
ADD T AFTER DASH NUMBER FOR TITANIUM.  
ADD W AFTER DASH NUMBER FOR 7075-T73.

EXAMPLE OF PART NUMBERS:  
AN837-8 - ELBOW, 1/2 TUBING STEEL.  
AN837-8D - ELBOW, 1/2 TUBING ALUMINUM ALLOY (EXCEPT 7075-T73)  
AN837-8J - ELBOW, 1/2 TUBING CORROSION RESISTANT STEEL, TYPE 304.  
AN837-8K - ELBOW, 1/2 TUBING CORROSION RESISTANT STEEL, TYPE 316.  
AN837-8S - ELBOW, 1/2 TUBING CORROSION RESISTANT STEEL, TYPE 347.  
AN837-8T - ELBOW, 1/2 TUBING TITANIUM.  
AN837-8W - ELBOW, 1/2 TUBING 7075-T73.

BREAK ALL SHARP EDGES AND REMOVE ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: FRACTIONS  $\pm 1/64$ .

FITTING INSTALLATION TO BE IN ACCORDANCE WITH AND10064.

TITANIUM NOT FOR USE IN OXYGEN SYSTEMS.

ENTIRE STANDARD REVISED

P. A. <b>AIR FORCE - 82</b> Other Cust ARMY - AV NAVY - AS <b>AIR FORCE - 89</b>	INTERNATIONAL INTEREST	<b>AIR FORCE-NAVY AERONAUTICAL STANDARD</b>	
		<b>ELBOW, FLARED TUBE AND UNIVERSAL, 45°</b>	
PROCUREMENT SPECIFICATION <b>MIL-F-5509</b>	SUPERSEDES:	<b>AN837</b>	
			SHEET 1 OF 2

USER ACTIVITIES:

REVIEWER ACTIVITIES: DLA-CS

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED 19 JUL 42 REVISED 7 16 APRIL 82 8 4 AUG 83

FED. SUP CLASS  
4730

USER ACTIVITIES:

REVIEWER ACTIVITIES: DLA - CS

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DASH NO.	TUBING OD	THREAD T (REF)	H RAD	M +3/64 -0	Q +3/64 -0	R RAD	U RAD	V	W	Y +3/64 -0	Z +3/64 -0
AN837-2	1/8	5/16-24UNJF-3A	1/32	1- 3/8	41/64	5/32	1/16	5/16	7/32	1-27/64	23/32
AN837-3	3/16	3/8 -24UNJF-3A				3/16		3/8	-11/16		
AN837-4	1/4	7/16-20UNJF-3A	1/16	1-17/32	45/64	7/32	3/32	7/16	5/16	1-19/32	49/64
AN837-5	5/16	1/2 -20UNJF-3A			3/4	1/4		1/2	13/16		
AN837-6	3/8	9/16-18UNJF-3A	3/32	1-43/64	13/16	9/32	1/8	9/16	3/8	1- 3/4	57/64
AN837-8	1/2	3/4 -16UNJF-3A		1-15/16	31/32	3/8		3/4	1/2	2- 1/32	1- 1/16
AN837-10	5/8	7/8 -14UNJF-3A		2-11/64	1- 3/32	7/16	7/8	5/8	2- 9/32	1-13/64	
AN837-12	3/4	1-1/16-12UNJ -3A		2- 7/16	1-17/64	17/32	1-1/16	13/16	2- 9/16	1-25/64	
AN837-16	1	1-5/16-12UNJ -3A		2- 9/16	1-29/64	21/32	1-5/16	1	2-47/64	1- 5/8	
AN837-20	1-1/4	1-5/8 -12UNJ -3A		2-21/32	1-37/64	13/16	1-5/8	1- 1/4	2- 7/8	1-51/64	
AN837-24	1-1/2	1-7/8 -12UNJ -3A		2-43/64	1-49/64	15/16	1-7/8	1- 1/2	2-15/16	2- 1/32	
AN837-28	1-3/4	2-1/4 -12UNJ -3A		2- 3/4	1-61/64	1- 1/8	3/16	2-1/4	1- 3/4	3- 5/64	2-17/64
AN837-32	2	2-1/2 -12UNJ -3A		2-29/32	2-13/64	1- 1/4	1/4	2-9/16	2	3- 1/32	2-37/64

ENTIRE STANDARD REVISED

P. A. AIR FORCE - 82  
Other-Cust

ARMY - AV  
NAVY - AS

AIR FORCE - 99

PROCUREMENT SPECIFICATION  
MIL - F - 5509

INTERNATIONAL INTEREST

AIR FORCE - NAVY AERONAUTICAL STANDARD

ELBOW,  
FLARED TUBE AND UNIVERSAL, 45°

SUPERSEDES:

AN837

SHEET 2 OF 2

APPROVED 19 JUN 42 REVISED 6 FOR CHANGES SEE PAGES 1 & 2