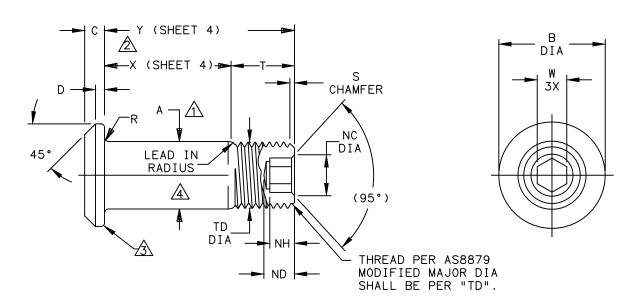
AERO-LITE® ENGINEERING STANDARD

Phone (310) 830-8200

HFS Carson Engineering@howmet.com



	AL PIN FAMILY NUMBER	NOM SIZE	THREAD (MODIFIED	I BARE I	A SHANK DIA COATED ±.0005	B HEAD DIA	C HEAD HEIGHT		NC CHAMFER DIA	ND DRILL DEPTH MAX		R RAD ±.005	S CHAMFER	T REF	TD DIA	W HEX 3X	DOUBLE SHEAR LBS MIN	TENSION LBS MIN
2	AL756()-14-()	. 4375	.4375-20 UNJF-3A	. 4365	. 4365	.676 .641	.160 .150	. 095	. 253 . 233	. 275	.190 .170	. 025	3/64"	. 485	.4310 .4260	.1930 .1895	28600	17670
	AL756()-16-()	.5000	.5000-20 UNJF-3A	. 4990	. 4990	.770 .735	.188 .178	. 095	. 289 . 269	.315	.220 .200	.025	3/64"	.525	. 4930 . 4880	.2242 .2207	37300	23940
	AL756()-18-()	. 5625	.5625-18 UNJF-3A	.5610	.5610	.877 .842	.210 .200	.125	. 326 . 306	. 365	.260 .240	. 035	1/16"	.600	.5550 .5500		47200	28350
	AL756()-20-()	.6250	.6250-18 UNJF-3A	. 6235	. 6235	.953 .918	. 238 . 228	. 140	. 326 . 306	. 365	.260 .240	. 035	1/16"	.640	.6180 .6120		58300	38350

riangle concentricity: "B" head diameter to "a" shank diameter to be within .010 tir.

ot hinspace hinspaceTRANSITION AREA AND THREAD FORM WILL ALLOW MATING COLLAR TO ACHIEVE MINIMUM GRIP CONDITION WITHOUT INTERFERENCE. (SEE DESIGN GRIP RANGE AND DIMENSION "X" SHEET 4).

🖄 PERMISSIBLE NATURAL FLOW OF MATERIAL. MUST BE FREE FROM SHARP CORNERS.

 \not A\ MAXIMUM "A" DIAMETER MAY BE INCREASED BY .0002 TO ALLOW FOR DRY FILM LUBE (SUFFIX "UV" FINISH ONLY).

<u>∕5\</u> SEE AL12()-()-() DRAWING FOR DIAMETERS 5 THRU 12.

MATERIAL: 6AL-4V TITANIUM ALLOY PER AMS4967 OR AMS4928.

MINIMUM SHEAR STRENGTH: 95 KSI.

SURFACE TEXTURE: Ra MAX PER ANSI-B46.1 BEFORE COATING. BEARING SURFACE OF HEAD.

HEAD TO SHANK FILLET RADIUS, SHANK AND LEAD-IN RADIUS, -32,

OTHER SURFACES -125.

DIMENSIONS IN INCHES AFTER FINISH

PROCUREMENT SPECIFICATION: C380 ©1995, 2020 HUCK INTERNATIONAL, INC., ALL RIGHTS RESERVED. AERO-LITE IS A TRADEMARK OF HOWMET AEROSPACE INC.AND ITS SUBSIDIARIES.

DH DRAWN BY FSCM (Cage Code) 17446 - Carson CHECKED BY

REMOVE HI-KOTE I AND KAL-GARD 2242 FROM PAGE 2, EXCEPT FOR "AP" AND "KM": CHANGE "HI-KOTE I" TO "HI-KOTE 1 ONLY" AND REMOVE KAL-GARD 2242. (REF. ECR 2906)

ISSUED	02/19/99						
REVISED	09/12/2022						
PAGE	1 OF 4						

PIN, AERO-LITE® LIGHTWEIGHT PROTRUDING 756 TENSION HEAD, 6AL-4V TITANIUM. (95 KSI SHEAR)

AL756()-()-()

AL112

INTERNATIONAL INCORPORATED THE EXCLUSIVE PROPERTY OF HUCK TECHNICAL DATA AND ENGINEERING SERVICE REPRESENTED THEREBY ARE DESIGN DISCLOSED THEREIN AND THE STRUCTURAL 포 DRAWING

Phone (310) 830-8200 HFS Carson Engineering@howmet.com AERO-LITE®

ENGINEERING
STANDARD

HOWMET AEROSPACE FINISH:

INCORPORATED

OF HUCK

EXCLUSIVE PROPERTY

ͳ

ARE

REPRESENTED THEREBY

SERVICE

ENGINEERING

DATA AND

TECHNICAL

THEREIN AND THE

STRUCTURAL DESIGN DISCLOSED

里

DRAWING.

FINISH: SUFFIX "AP" = ALUMINUM COATING (HI-KOTE 1 ONLY) PER NAS4006 PLUS CETYL

ALCOHOL LUBE PER MIL-L-87132 "B".

SUFFIX "AT" = ALUMINUM COATING PER NAS4006.

SUFFIX "BJ" = ION VAPOR DEPOSITED ALUMINUM COATING PER MIL-C-83488,

TYPE II, CLASS 3 PLUS CETYL ALCOHOL LUBE PER MIL-L-87132.

SUFFIX "BL" = ION VAPOR DEPOSITED ALUMINUM COATING PER MIL-C-83488 TYPE

II, CLASS 3 WITH BLACK COLOR ON THREAD END PLUS CETYL

ALCOHOL LUBE PER MIL-L-87132 "B".

SUFFIX "CF" = ION VAPOR DEPOSITED ALUMINUM COATING PER MIL-C-83488,

TYPE II, CLASS 3 WITH BLACK COLOR ON THREAD END.

SUFFIX "KM" = ALUMINUM COATING (HI-KOTE 1 ONLY) PER NAS4006 WITH WHITE

COLOR ON THREAD END PLUS CETYL ALCOHOL LUBE PER

MIL-L-87132.

SUFFIX "KN" = ALUMINUM COATING PER NAS4006 WITH WHITE COLOR ON THREAD

END.

SUFFIX "RP" = PHOSPHATE FLUORIDE TREAT PER AMS2486 WITH ORANGE COLOR ON

THREAD END PLUS CETYL ALCOHOL LUBE PER MIL-L-87132.

SUFFIX "UV" = SULFURIC ACID ANODIZE (BLUE) PER ISO 8080 AND DRY FILM

LUBE PER AS5272 PLUS CETYL ALCOHOL LUBE PER MIL-L-87132.

SUFFIX "VF" = SULFURIC ACID ANODIZE (BLUE) PER ISO 8080 PLUS CETYL

ALCOHOL LUBE PER MIL-L-87132.

SUFFIX "WF" = SULFURIC ACID ANODIZE (BLUE) PER ISO 8080 WITH BLACK

COLOR ON THREAD END PLUS CETYL ALCOHOL LUBE PER

MIL-L-87132.

NO LETTER = UNCOATED PIN PLUS CETYL ALCOHOL LUBE PER MIL-L-87132.

DIMENSIONS IN INCHES AFTER FINISH

| REMOVE HI-KOTE I AND KAL-GARD 2242 FROM PAGE 2, EXCEPT FOR "AP" AND "KM": CHANGE "HI-KOTE I" TO "HI-KOTE I" T

Phone (310) 830-8200 HFS Carson Engineering@howmet.com AERO-LITE®
ENGINEERING
STANDARD

HEAD MARKING: HEADS SHALL BE MARKED WITH THE MANUFACTURER'S SYMBOL, THE BASIC NUMBER

(AL756) AND DASH NUMBER DESIGNATING DIAMETER, DEPRESSED .006 MAX DEPTH

ARRANGEMENT OPTIONAL.

CODING: THE FIRST SET OF LETTERS DESIGNATE THE FAMILY OF LIGHTWEIGHT AERO-LITE® PINS FOR AEROSPACE APPLICATIONS (AL).

THE NEXT SET OF NUMBERS DESIGNATE HEAD SIZE, STYLE, MATERIAL AND LOAD APPLICATION (756).

THE NEXT SET OF LETTERS DESIGNATE FINISH (SEE FINISH CODE FOR SUFFIX INFORMATION).

THE FOLLOWING NUMBERS DESIGNATE THE NOMINAL PIN SHANK DIAMETER IN .03125 INCH INCREMENTS.

THE FINAL NUMBERS DESIGNATE THE GRIP LENGTH NUMBER OR THE NOMINAL PIN SHANK LENGTH IN .0625 INCH INCREMENTS.

EXAMPLE: AL756()-14-6
GRIP LENGTH IN .0625 INCH INCREMENTS.
SHANK DIA IN .03125 INCH INCREMENTS.
FINISH SUFFIX (SEE FINISH CODE).
TITANUM PROTRUDING 756 TENSION HEAD
FOR TENSION APPLICATIONS.

AL FAMILY OF AERO-LITE® LIGHTWEIGHT
PINS FOR AEROSPACE APPLICATIONS.

DIMENSIONS IN INCHES
AFTER FINISH

REMOVE HI-KOTE I AND KAL-GARD 2242 FROM PAGE 2, EXCEPT FOR "AP" AND "KM": CHANGE "HI-KOTE I" TO "HI-KOTE 1 ONLY" AND REMOVE KAL-GARD 2242. (REF. ECR 2906)

ISSUED	02/19/99							
REVISED	09/12/2022							
PAGE	3 OF 4							

PIN, AERO-LITE[®] LIGHTWEIGHT PROTRUDING 756 TENSION HEAD, 6AL-4V TITANIUM. (95 KSI SHEAR)

AL756()-()-()

AL112

AERO-LITE®

Phone (310) 830-8200

HFS_Carson_Engineering@howmet.com

		GRIF	NUMBE	R TABUL	ATION		
GRIP DASH			Χ.	14	16	18	20
NO.	2		±.005	Y	Y	Y	Y
2	MIN.	MAX.		±.010	±.010	±.010	±.010
2	.063	. 125	.125			_	_
3 4	.126 .189	. 188 . 250	.188	.735		_	
5	. 251	.312	.312	.797	.837	.912	_
6 7	.313 .376	. 375 . 438	.375	.860 .923	.900	.975	1.015
8	. 439	.500	.438	. 985	.963 1.025	1.038	1.140
9 10	.501 .563	. 562 . 625	.562 .625	1.047 1.110	1.087	1.162	1.202 1.265
11	.626	. 688	. 688	1.173	1.213	1.288	1.328
12 13	.689 .751	.750 .812	.750 .812	1.235 1.297	1.275	1.350	1.390 1.452
14	.813	. 875	. 875	1.360	1.400	1.475	1.515
15	.876	. 938	.938	1.423	1.463	1.538	1.578
16 17	.939 1.001	1.000	1.000	1.485 1.547	1.525	1.600	1.640 1.702
18 19	1.063	1.125	1.125	1.610 1.673	1.650	1.725	1.765
20	1.189	1.250	1.250	1.735	1.775	1.850	1.890
21	1.251	1.312	1.312	1.797	1.837	1.912	1.952
22 23	1.313	1.375	1.375	1.860 1.923	1.900	1.975	2.015
24 25	1.439	1.500 1.562	1.500	1.985 2.047	2.025	2.100	2.140
26 27	1.563 1.626	1.625 1.688	1.625 1.688	2.110 2.173	2.150	2.225	2.265 2.328
28 29	1.689 1.751	1.750 1.812	1.750	2.235 2.297	2.275	2.350	2.390
30	1.813	1.875	1.875	2.360	2.400	2.475	2.515
31	1.876	1.938	1.938	2.423	2.463	2.538	2.578
32	1.939	2.000	2.000	2.485	2.525	2.600	2.640

DIMENSIONS IN INCHES AFTER FINISH

		HI-KOTE I AND KAL-GARD AND REMOVE KAL-GARD 22	2242 FROM PAGE 2, EXCEPT FOR "AP" AND "KM": CHANGE "HI-KOTE I" TO "HI-KOTE 42. (REF. ECR 2906)	
	ISSUED	02/19/99	PIN, AERO-LITE LIGHTWEIGHT	AL 756() () ()
; [REVISED	09/12/2022	PROTRUDING 756 TENSION HEAD,	AL756()-()-()
	PAGE	4 OF 4	6AL-4V TITANIUM.(95 KSI SHEAR)	AL112