SAE ITC
An SAE International Affiliate

AEROSPACE STANDARD

AS28005™	ISSUE 2
Issued 1969-10 Revised 1970-11	

Nut, Self-Locking, Non C.R. Steel, Corner Anchor, Cadmium Coated

NOTE: The issue status of this document remains unchanged as there have been no changes to the technical content.

SAE INDUSTRY TECHNOLOGIES CONSORTIA AEROSPACE STANDARDS AND PART QUALIFICATION PROGRAM

FOREWORD

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The legal obligations and copyright authority of all Aerospace Standards that were issued by the ADS Group Limited are therefore assigned / transferred to the SAE ITC.

These Standards are produced by the SAE ITC with the assistance of, and for the benefit of the Aerospace Industry, as part of a continuous programme of Standardisation for Aerospace application under the control of the Technical Standards Committee (TSC) of the SAE ITC.

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All references to Standards include reference to RS and TS publications.

Details of this and any further information can be obtained from the SAE ITC.

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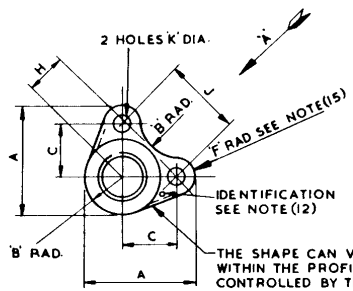
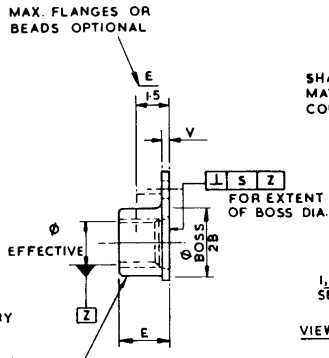
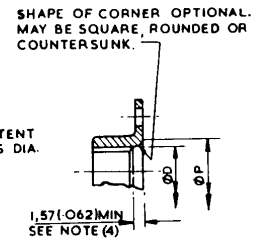
AS 28005

ISSUE	ALT. No.
1	
2	8.1.496
	16.11.70







NOTES:

1) PERFORMANCE: S.B.A.C. SPECIFICATION T.S.4.
2) MATERIAL: NON C.R. STEEL CADMIUM COATED.
3) MIN 'E' NOT SPECIFIED LIMITED ONLY BY STRENGTH REQUIREMENT OF THE SPECIFICATION.
4) ON PART REF. B THE THREAD RELIEF TO BE 0,86 (·034) MAX, DEPTH MEASURED FROM THE SURFACE OF THE NUT BODY.
5) THREADS TO BE PROVIDED WITH A BAKED-ON Mo S2 DRY FILM LUBRICANT. OTHER SURFACES OPTIONAL.
6) THESE SELF-LOCKING NUTS ARE DESIGNED TO DEVELOP 110 HECTOBARS (160,000 lb. f/IN²) WHEN USED ON 125 HECTOBARS (180,000 lb. f/IN²) TENSILE BOLTS OR WILL DEVELOP 96 HECTOBARS (140,000 lb. f/IN²) WHEN USED ON 110 HECTOBARS (160,000 lb. f/IN²) TENSILE BOLTS.
7) MAXIMUM RATED TEMPERATURE 250°C.
8) SCREW THREADS TO CONFORM TO B.S. 4084 (MIL-S-8879)
9) COATED THREADS. IT IS RECOMMENDED THAT BEFORE COATING, THE MINIMUM LIMITS FOR MINOR, MAJOR & EFFECTIVE DIAMETERS BE INCREASED BY ·001, BUT IT IS ESSENTIAL THAT THE MAXIMUM LIMITS REMAIN UNCHANGED.
10) HARDNESS 49 HR.C. MAX.
11) DRAWING PRACTICE CONFORMS TO B.S. 308
12) IDENTIFICATION: INDICATED BY DEPRESSED CIRCLE.
13) SURFACE TEXTURE: B.S. 1134. ALL SURFACES 3,2 MICROMETRES (125 MICRO INCHES)
14) DIMENSIONS & TOLERANCES EXCEPT FOR THREAD ARE IN MILLIMETRES. INCH CONVERSIONS ARE IN PARENTHESES
15) SHAPE OF LUG OPTIONAL WITHIN THE DIMENSIONS AND TOLERANCES SHOWN

PART REF.	THREAD CLASS 3B	A MAX.		B RAD.		C		D ϕ MIN.		E (3) MAX.		F MIN.		H MAX.		J		K		P ϕ MAX.		S		V MAX.		WEIGHT PER 100 APPROX.		AXIAL TENSILE STRENGTH (SEE NOTE 6) MIN.			
																												110 HECTOBARS		96 HECTOBARS	
		mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	mm	INCH	Kg	lb	N	lbf	N	lbf
B	6-32 UNJC	16,18	·637	3,39 2,74	·133 ·108	8,86 8,61	·349 ·339	—	—	4,31	·171	3,68 2,54	·145 ·100	6,86	·270	12,40 12,29	·488 ·484	2,62 2,49	·103 ·098	5,23	·206	0,13	·005	1,19	·047	0,113	·25	7429	1670	5030	1130
C	8-32 UNJC	16,33	·643	3,78 3,18	·149 ·125	8,86 8,61	·349 ·339	4,26	·168	6,35	·250	3,68 2,54	·145 ·100	6,86	·270	12,40 12,29	·488 ·484	2,62 2,49	·103 ·098	6,30	·248	0,15	·006	1,19	·047	0,127	·28	11076	2490	7650	1720
D	10-32 UNJF	16,71	·658	4,17 3,68	·164 ·145	8,86 8,61	·349 ·339	4,92	·194	6,35	·250	3,68 2,54	·145 ·100	6,86	·270	12,40 12,29	·488 ·484	2,62 2,49	·103 ·098	7,00	·274	0,15	·006	1,19	·047	0,131	·29	15435	3470	10970	2460
E	1/4-28 UNJF	21,77	·857	5,28 4,70	·207 ·185	12,83 12,57	·505 ·495	6,44	·254	7,12	·281	3,68 2,54	·145 ·100	9,73	·383	18,01 17,91	·709 ·705	2,62 2,49	·103 ·098	8,74	·344	0,18	·007	1,40	·055	0,263	·58	27579	6200	20200	4580
G	5/16-24 UNJF	23,34	·919	6,30 5,49	·248 ·216	12,83 12,57	·505 ·495	8,03	·317	8,33	·328	4,09 3,17	·161 ·125	9,73	·383	18,01 17,91	·709 ·705	3,43 3,30	·135 ·130	10,59	·417	0,18	·007	1,65	·065	0,386	·85	43681	9820	32850	7390
J	3/8-24 UNJF	24,71	·973	7,80 7,37	·307 ·290	12,83 12,57	·505 ·495	9,60	·379	8,73	·344	4,09 3,17	·161 ·125	9,73	·383	18,01 17,91	·709 ·705	3,43 3,30	·135 ·130	12,83	·505	0,20	·008	1,91	·075	0,594	1·31	67613	15200	50932	11450

PREPARED BY THE SELF-LOCKING NUT PANEL

USED ON		HT	SEE NOTES 1 & 10	PT	CADMIUM TO D.T.D. 904	SCALE	N.T.S	LIMITS NOT SHOWN	NONE	THIRD ANGLE PROJECTION
ISSUED BY THE SOCIETY OF BRITISH AEROSPACE COMPANIES LTD. 29, KING STREET, ST. JAMES'S, LONDON, S.W.1.	DESIGNED / DRAWN / TRACED / CHECKED	APPROVED FOR S.B.A.C.	R.A. JONES	DATE	20.10.69	NUT, SELF-LOCKING, NON C.R. STEEL, CORNER ANCHOR, CADMIUM COATED.				AS 28005

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