

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

**REV. C**  
**AS9455™**

FEDERAL SUPPLY CLASS  
5306

**RATIONALE**

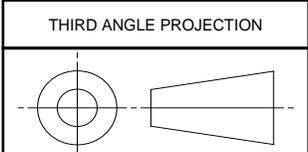
THIS DOCUMENT HAS BEEN DETERMINED TO CONTAIN BASIC AND STABLE TECHNOLOGY WHICH IS NOT DYNAMIC IN NATURE.

**STABILIZED NOTICE**

THIS DOCUMENT HAS BEEN DECLARED "STABILIZED" BY THE SAE E-25 GENERAL STANDARDS FOR AEROSPACE AND PROPULSION SYSTEMS COMMITTEE AND WILL NO LONGER BE SUBJECTED TO PERIODIC REVIEWS FOR CURRENCY. USERS ARE RESPONSIBLE FOR VERIFYING REFERENCES AND CONTINUED SUITABILITY OF TECHNICAL REQUIREMENTS. NEWER TECHNOLOGY MAY EXIST.

SAENORM.COM : Click to view the full PDF of as9455c

**SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS9455C>**



CUSTODIAN: E-25



**AEROSPACE STANDARD**  
BOLT, MACHINE - STEEL, DIFFUSED NICKEL-CADMIUM PLATED, HEXAGON HEAD, UNS K14675, 195 KSI MIN, .4375-20 UNJF-3A

**AS9455™**

**REV. C**

ISSUED 1998-08 REVISED 2003-11 REAFFIRMED 2007-06 STABILIZED 2015-10

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9455A, AMENDMENT 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL) MAY CONTINUE TO BE MANDATORY FOR DOD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

**WARNING**

THIS DOCUMENT INCLUDES CADMIUM AS A PLATING MATERIAL. THE USE OF CADMIUM HAS BEEN RESTRICTED AND/OR BANNED FOR USE IN MANY COUNTRIES DUE TO ENVIRONMENTAL AND HEALTH CONCERNS. THE USER SHOULD CONSULT WITH LOCAL OFFICIALS ON THE ENVIRONMENTAL AND HEALTH REGULATIONS REGARDING ITS USE.

SAENORM.COM : Click to view the full PDF of as9455c

	<b>AEROSPACE STANDARD</b>	<b>AS9455™</b> SHEET 1 OF 4	<b>REV.</b> <b>C</b>
	BOLT, MACHINE - STEEL, DIFFUSED NICKEL- CADMIUM PLATED, HEXAGON HEAD, UNS K14675, 195 KSI MIN, .4375-20 UNJF-3A		

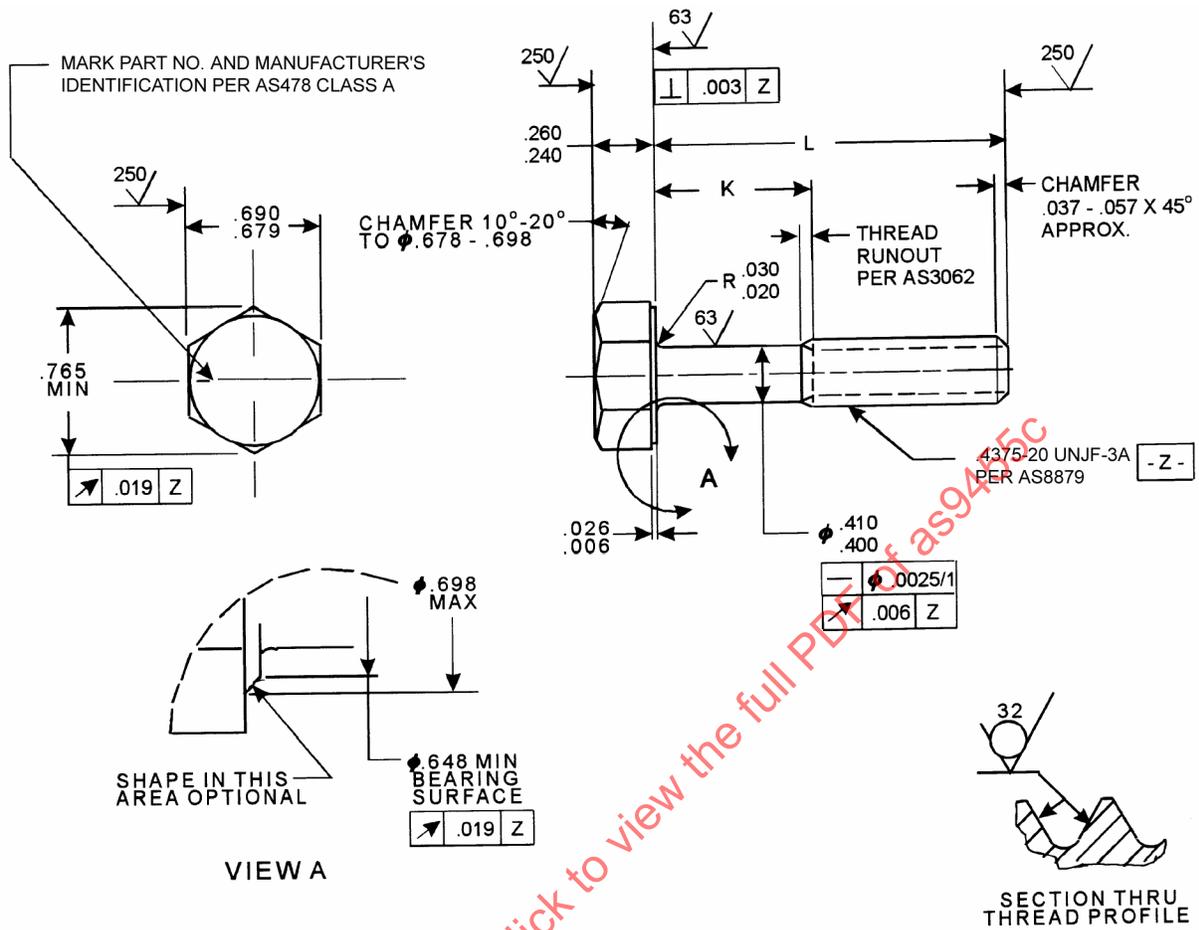


FIGURE 1 - BOLT

SAENORM.COM : Click to view the full PDF of as9455c

	<b>AEROSPACE STANDARD</b>	<b>AS9455™</b> SHEET 2 OF 4	<b>REV.</b> <b>C</b>
	BOLT, MACHINE - STEEL, DIFFUSED NICKEL- CADMIUM PLATED, HEXAGON HEAD, UNS K14675, 195 KSI MIN, .4375-20 UNJF-3A		

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NO.	L	K	APPROX. MASS LB/100	PART NO.	L	K	APPROX. MASS LB/100
MS9455-04	.678 - .698	.105 - .125	5.78	MS9455-31	2.990 - 3.010	1.815 - 1.875	14.20
MS9455-05	.740 - .760	.105 - .125	6.01	MS9455-32	3.115 - 3.135	1.940 - 2.000	14.65
MS9455-06	.802 - .822	.105 - .125	6.24	MS9455-33	3.240 - 3.260	2.065 - 2.125	15.11
MS9455-07	.865 - .885	.105 - .125	6.47	MS9455-34	3.365 - 3.385	2.190 - 2.250	15.56
MS9455-08	.928 - .948	.105 - .125	6.69	MS9455-35	3.490 - 3.510	2.315 - 2.375	16.02
MS9455-09	.990 - 1.010	.105 - .125	6.92	MS9455-36	3.615 - 3.635	2.440 - 2.500	16.47
MS9455-10	1.052 - 1.072	.105 - .125	7.15	MS9455-37	3.740 - 3.760	2.565 - 2.625	16.93
MS9455-11	1.115 - 1.135	.105 - .125	7.37	MS9455-38	3.865 - 3.885	2.690 - 2.750	17.38
MS9455-12	1.178 - 1.198	.105 - .125	7.60	MS9455-39	3.990 - 4.010	2.815 - 2.875	17.84
MS9455-13	1.240 - 1.260	.125 - .145	7.83	MS9455-40	4.115 - 4.135	2.940 - 3.000	18.29
MS9455-14	1.302 - 1.322	.128 - .188	8.06	MS9455-41	4.240 - 4.260	3.065 - 3.125	18.74
MS9455-15	1.365 - 1.385	.190 - .250	8.28	MS9455-42	4.365 - 4.385	3.190 - 3.250	19.20
MS9455-16	1.428 - 1.448	.252 - .312	8.51	MS9455-43	4.490 - 4.510	3.315 - 3.375	19.65
MS9455-17	1.490 - 1.510	.315 - .375	8.74	MS9455-44	4.615 - 4.635	3.440 - 3.500	20.11
MS9455-18	1.552 - 1.572	.378 - .438	8.97	MS9455-45	4.740 - 4.760	3.565 - 3.625	20.56
MS9455-19	1.615 - 1.635	.440 - .500	9.19	MS9455-46	4.865 - 4.885	3.690 - 3.750	21.02
MS9455-20	1.678 - 1.698	.502 - .562	9.42	MS9455-47	4.990 - 5.010	3.815 - 3.875	21.47
MS9455-21	1.740 - 1.760	.565 - .625	9.65	MS9455-48	5.115 - 5.135	3.940 - 4.000	21.93
MS9455-22	1.865 - 1.885	.690 - .750	10.10	MS9455-49	5.240 - 5.260	4.065 - 4.125	22.38
MS9455-23	1.990 - 2.010	.815 - .875	10.56	MS9455-50	5.365 - 5.385	4.190 - 4.250	22.84
MS9455-24	2.115 - 2.135	.940 - 1.000	11.01	MS9455-51	5.490 - 5.510	4.315 - 4.375	23.29
MS9455-25	2.240 - 2.260	1.065 - 1.125	11.47	MS9455-52	5.615 - 5.635	4.440 - 4.500	23.75
MS9455-26	2.365 - 2.385	1.190 - 1.250	11.92	MS9455-53	5.740 - 5.760	4.565 - 4.625	24.20
MS9455-27	2.490 - 2.510	1.315 - 1.375	12.38	MS9455-54	5.865 - 5.885	4.690 - 4.750	24.66
MS9455-28	2.615 - 2.635	1.440 - 1.500	12.83	MS9455-55	5.990 - 6.010	4.815 - 4.875	25.11
MS9455-29	2.740 - 2.760	1.565 - 1.625	13.29				
MS9455-30	2.865 - 2.885	1.690 - 1.750	13.74				

NOTES:

- MATERIAL: LOW ALLOY STEEL AMS 6304 (UNS K14675).
- PROCUREMENT SPECIFICATION: AS7455.
- HARDNESS: 42-46 HRC.
- FINISH: DIFFUSED NICKEL-CADMIUM PLATE AMS 2416. DIMENSIONS ARE AFTER PLATING. CONTACT POINTS PERMISSIBLE. PD MAY BE REDUCED .0012 MAXIMUM BEFORE PLATING.
- MAGNETIC PARTICLE INSPECTION PER ASTM E 1444 BEFORE PLATING.
- INCOMPLETE THREADS NOT TO ENTER FILLET.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
- BREAK SHARP EDGES .003-.015, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).

	<b>AEROSPACE STANDARD</b>	<b>AS9455™</b> SHEET 3 OF 4	<b>REV.</b> <b>C</b>
	BOLT, MACHINE - STEEL, DIFFUSED NICKEL-CADMIUM PLATED, HEXAGON HEAD, UNS K14675, 195 KSI MIN, .4375-20 UNJF-3A		