

NEW PART STANDARD TO REPLACE MS9497.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM THE U.S. MILITARY STANDARD MS9497C. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL'S) 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.

AS9497™

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. SAE Executive Standards Committee 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."

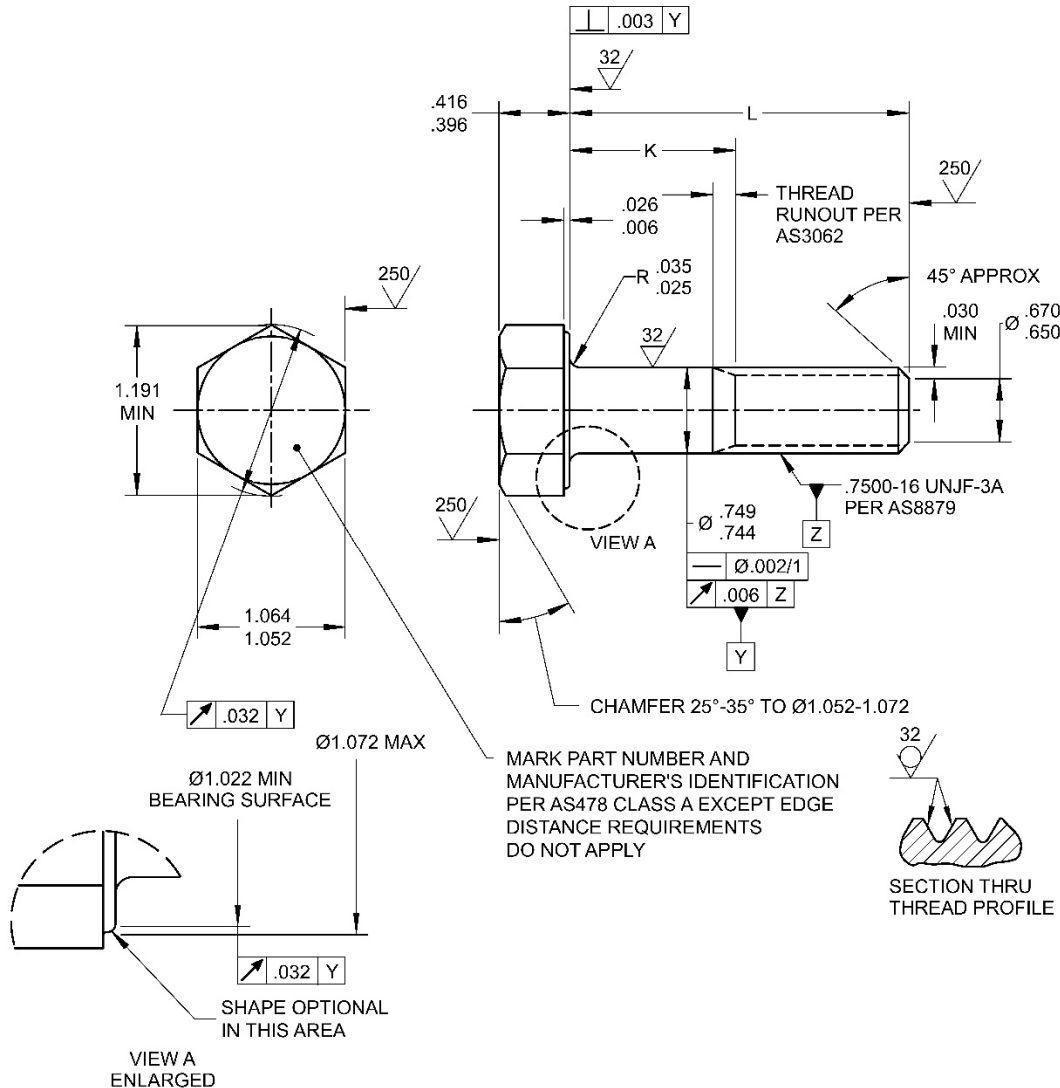
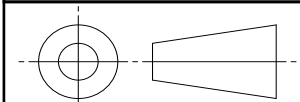


FIGURE 1 - BOLT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS9497/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7477



AEROSPACE STANDARD

BOLT, MACHINE - HEXAGON HEAD, FULL SHANK,
CORROSION AND HEAT RESISTANT STEEL,
UNS S66286, 130 KSI MIN, .7500-16 UNJF-3A

AS9497™
SHEET 1 OF 2

Documents

Copyright © 2021 SAE International

Copyright © 2021 SAE International
All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE International.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Fax: 724-776-0790

Tel: +1 724-776-4970 (outside USA)
Email: CustomerService@sae.org

SAE WEB ADDRESS: <http://www.sae.org>

SSUED 2021-07

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NUMBER	L	K	APPROX MASS LB/100	PART NUMBER	L	K	APPROX MASS LB/100
MS9497-06	1.240-1.260	.129-.149	26.90	MS9497-31	3.615-3.635	1.815-1.875	56.63
MS9497-07	1.302-1.322	.129-.149	27.68	MS9497-32	3.740-3.760	1.940-2.000	58.20
MS9497-08	1.365-1.385	.129-.149	28.47	MS9497-33	3.865-3.885	2.065-2.125	59.76
MS9497-09	1.428-1.448	.129-.149	29.25	MS9497-34	3.990-4.010	2.190-2.250	61.33
MS9497-10	1.490-1.510	.129-.149	30.03	MS9497-35	4.115-4.135	2.315-2.375	62.89
MS9497-11	1.552-1.572	.129-.149	30.81	MS9497-36	4.240-4.260	2.440-2.500	64.46
MS9497-12	1.615-1.635	.129-.149	31.60	MS9497-37	4.365-4.385	2.565-2.625	66.02
MS9497-13	1.678-1.698	.129-.149	32.38	MS9497-38	4.490-4.510	2.690-2.750	67.59
MS9497-14	1.740-1.760	.129-.149	33.16	MS9497-39	4.615-4.635	2.815-2.875	69.15
MS9497-15	1.802-1.822	.129-.149	33.95	MS9497-40	4.740-4.760	2.940-3.000	70.72
MS9497-16	1.865-1.885	.129-.149	34.73	MS9497-41	4.865-4.885	3.065-3.125	72.28
MS9497-17	1.928-1.948	.129-.149	35.51	MS9497-42	4.990-5.010	3.190-3.250	73.85
MS9497-18	1.990-2.010	.190-.250	36.29	MS9497-43	5.115-5.135	3.315-3.375	75.41
MS9497-19	2.115-2.135	.315-.375	37.86	MS9497-44	5.240-5.260	3.440-3.500	76.98
MS9497-20	2.240-2.260	.440-.500	39.42	MS9497-45	5.365-5.385	3.565-3.625	78.54
MS9497-21	2.365-2.385	.565-.625	40.99	MS9497-46	5.490-5.510	3.690-3.750	80.11
MS9497-22	2.490-2.510	.690-.750	42.55	MS9497-47	5.615-5.635	3.815-3.875	81.67
MS9497-23	2.615-2.635	.815-.875	44.12	MS9497-48	5.740-5.760	3.940-4.000	83.23
MS9497-24	2.740-2.760	.940-1.000	45.78	MS9497-49	5.865-5.885	4.065-4.125	84.80
MS9497-25	2.865-2.885	1.065-1.125	47.25	MS9497-50	5.990-6.010	4.190-4.250	86.36
MS9497-26	2.990-3.010	1.190-1.250	48.81				
MS9497-27	3.115-3.135	1.315-1.375	50.48				
MS9497-28	3.240-3.260	1.440-1.500	51.94				
MS9497-29	3.365-3.385	1.565-1.625	53.50				
MS9497-30	3.490-3.510	1.690-1.750	55.07				

NOTES:

1. MATERIAL: CORROSION AND HEAT RESISTANT STEEL PER AMS5731 (COMPOSITION SIMILAR TO UNS S66286).
2. PROCUREMENT SPECIFICATION: AS7477.
3. FLUORESCENT PENETRANT INSPECTION PER ASTM E1417/E1417M TYPE I, SENSITIVITY LEVEL 2 MIN.
4. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
5. BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
6. DIMENSIONS ARE IN INCHES.
7. DIMENSIONING AND TOLERANCING PER ASME Y14.5-2018.
8. UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
9. DO NOT USE UNASSIGNED PART NUMBERS.
10. REVISION INDICATOR: A CHANGE BAR (L) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT, INCLUDING TECHNICAL REVISIONS. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS, NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.

AS AND AMS ARE SAE INTERNATIONAL PUBLICATIONS.
ASME IS AN AMERICAN SOCIETY OF MECHANICAL ENGINEERS PUBLICATION.
ASTM IS AN ASTM INTERNATIONAL PUBLICATION.

	AEROSPACE STANDARD	AS9497™ SHEET 2 OF 2
	BOLT, MACHINE - HEXAGON HEAD, FULL SHANK, CORROSION AND HEAT RESISTANT STEEL, UNS S66286, 130 KSI MIN, .7500-16 UNJF-3A	

 Documents



Document Sharing Hub