



(B) Denotes Changes

APPROVED 8 May 1957 REVISED (A) 19 August 1966 (B) 29 November 1989

This military standard is approved by the Naval Sea Systems Command, Department of the Navy and shall be used by that activity. All other military activities are required to employ this standard where suitable.

P. A. SH Other Cust	INTERNATIONAL INTEREST	TITLE Bolts, Machine, Hexagon Head, Semifinished Corrosion Resisting Steel UNC-2A, Nonmagnetic	<b>MILITARY STANDARD</b>
PROCUREMENT SPECIFICATION MIL-S-1222 (B)			<b>MS 16208(SH)</b> SHEET 1 OF 6
SUPERSEDES:		(Project 5306-N174)	

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FED. SUP CLASS  
5306

Nominal size	1/4		5/16		3/8		7/16	
	20-UNC2A	MS part no	18-UNC2A	MS part no	16-UNC2A	MS part no	14-UNC2A	MS part no
(A) Threads per inch	0.250		0.312		0.375		0.437	
(B) Body diameter	.217		.276		.334		.394	
(C) Width across flats	.437		.500		.562		.625	
(D) Width across corners	.425		.484		.544		.603	
(E) Head height	.505		.577		.650		.722	
(F) Radius	.163		.211		.243		.291	
	.150		.195		.226		.272	
	.031		.031		.031		.031	
	.009		.009		.009		.009	
(L) Length	Tolerance		Tolerance		Tolerance		Tolerance	
	Size 1/4 to 3/8	Size 7/16 to 1/2	Size 5/8 to 1-1/4	MS part no	MS part no	MS part no	MS part no	MS part no
1/4				1				
3/8				2				
1/2				3				
5/8				4				
3/4				5				
7/8				6				
1				7				
1-1/4				8				
1-1/2				9				
1-3/4				10				
2				11				
2-1/4				12				
2-1/2				13				
2-3/4				14				
3				15				
3-1/4				16				
3-1/2				17				
3-3/4				18				
4				19				
4-1/4				20				
4-1/2				21				
4-3/4				22				
5				23				
5-1/2				24				
6				25				
6-1/2				26				
7				27				
7-1/2				28				
8				29				
9				30				
				31				
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(B) Denotes changes

P. A. SH Other Cont.	INTERNATIONAL INTEREST	TITLE Bolts, Machine, Hexagon Head, Semi-Finished, Corrosion Resisting Steel UNC-2A, Nonmagnetic	MILITARY STANDARD
	PROCUREMENT SPECIFICATION (B) MIL-S-1222	SUPERSEDES	MS 16208(SH)
DD FORM 672-1 (LIMITED COORDINATION)			SHEET 2 OF 6

APPROVED 8 May 1957 REVISED (A) 19 August 1966 (B) 29 November 1989

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Nominal size (Continued)	1/4		5/16		3/8		7/16	
	MS part no	FIIN	MS part no	FIIN	MS part no	FIIN	MS part no	FIIN
(A) Threads per inch (Continued)								
(L) Length (Continued)								
10								
11								
12								
13								
14								
15								
16								
18								
20								
Nominal size								
(A) Threads per inch								
(B) Body diameter								
(C) Width across flats								
(D) Width across corners								
(E) Head height								
(F) Radius								
(L) Length								
1/4								
3/8								
1/2								
5/8								
3/4								
7/8								
1								
1-1/4								
1-1/2								
1-3/4								
2								
2-1/4								
2-1/2								
2-3/4								
3								
3-1/4								
3-1/2								

(B) Denotes changes

APPROVED 8 May 1957 REVISION A 19 August 1966 B 29 November 1989

P. A. Other Code: SH	INTERNATIONAL INTEREST	TITLE Bolts, Machine, Hexagon Head, Semi-Finished, Corrosion Resisting Steel UNC-2A, Nonmagnetic	MILITARY STANDARD MS 16208(SH)
PROCUREMENT SPECIFICATION MIL-S-1222	SUPERSEDES:		SHEET 3 OF 6

This military standard is approved by the Naval Sea Systems Command, Department of the Navy, and shall be used by that activity. All other military activities are required to employ this standard where suitable.

Nominal size (Continued)	1/2		5/8		3/4		7/8	
	13-UNC2A		11-UNC2A		10-UNC2A		9-UNC2A	
	MS part no	FIIN	MS part no	FIIN	MS part no	FIIN	MS part no	FIIN
(A) Threads per inch (Continued)								
(L) Length (Continued)	Tolerance		Tolerance		Tolerance		Tolerance	
	Size 1/4 to 3/8	Size 7/16 to 1/2	Size 5/8 to 1-1/4					
3-3/4								
4								
4-1/4								
4-1/2								
4-3/4								
5								
5-1/2								
6								
6-1/2								
7								
7-1/2								
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14								
15								
16								
18								
20								

FED. SUP CLASS  
5306

(B) Denotes changes

P. A. SH Other Cost	INTERNATIONAL INTEREST	TITLE Bolts, Machine, Hexagon Head, Semi-Finished, Corrosion Resisting Steel UNC-2A, Nonmagnetic	MILITARY STANDARD MS 16208(SH)
PROCUREMENT SPECIFICATION (B) MIL-5-1222	SUPERSEDES:		SHEET 4 OF 6

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P. A. SH Other Cont		INTERNATIONAL INTEREST	TITLE Bolts, Machine, Hexagon Head, Semi-Finished, Corrosion Resisting Steel UNC-2A, Nonmagnetic		<b>MILITARY STANDARD</b> <b>MS</b> 16208(SH)	
PROCUREMENT SPECIFICATION MIL-S-1222		SUPERSEDES:		SHEET 6 OF 6		FED. SUP CLASS 5306
Nominal size (Continued) (A) Threads per inch (Continued) (L) Length (Continued)			Tolerance Size 1/4 to 3/8 Size 7/16 to 1/2 Size 5/8 to 1-1/2		1-1/2 6-UNC2A MS part no FIIN	
11 12 13 14 15 16 18 20			+1/16 +3/32 +3/16		1-1/8 7-UNC2A MS part no FIIN	
1-1/4 7-UNC2A MS part no FIIN			1-3/8 6-UNC2A MS part no FIIN		1-1/2 6-UNC2A MS part no FIIN	

Material: Austenitic corrosion resisting steel shall be in accordance with class 303, 303SE, 304, 305, 316, 321, 347, or 384 of ASTM F 593.  
 Magnetic permeability: Magnetic permeability shall be  $\mu_{max} = 2.0$  maximum when measured with a permeability indicator in accordance with MIL-I-17214.  
 Protective coating: Passivate in accordance with QQ-P-35.  
 Threads: Threads shall be UNC2A in accordance with FED-STD-H28.  
 Thread length: Minimum thread length shall be twice the nominal size (diameter) plus 1/4 inch for lengths to 6 inches inclusive and twice the nominal diameter plus 1/2 inch for lengths over 6 inches. Bolts too short for minimum thread length shall be threaded as close to the head as practicable.  
 Dimensions: All dimensions are in inches, unless otherwise specified.

NOTES:  
 1. In case of conflict with any document referenced herein, this standard shall govern.  
 2. Referenced documents shall be the issue in effect on date of invitation for bids.

(B) Material (B) Protective coating (B) Threads (B) Thread length (B) Dimensions

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