



TABLE I. DIMENSIONS AND PART NUMBERS

NOMINAL SIZE		.375	500	.750
THREADS PER INCH UNC-2A		16	13	10
F - WIDTH ACROSS FLATS	MAX MIN	375 362	5000 4800	750 729
G - WIDTH ACROSS CORNERS	MAX MIN	.520 497	.7270 .6650	1.060 1.001
H - HEIGHT OF HEAD	MAX MIN	.293 .270	.3890 3610	.582 564
S - RADIUS OF NECK RELIEF	MAX	.041	0500	065
ϕK - DIAMETER OF NECK RELIEF	MAX MIN	294 279	4000 .3850	620 605
U - WIDTH OF NECK RELIEF	MAX	125	1540	.200
W - RADIUS OF HEAD		.940	1.2500	1.380
ϕC - DIAMETER OF POINT	MAX MIN	.212 194	2910 .2700	450 425
L LENGTH	TOLERANCE	DASH 40	DASH 40	DASH 40
	OVER 625			
2.500 3.000	+ .000 - .180	1 2	3	4

USER ACTIVITIES
ARMY - ME, MI
NAVY - MC, OS

REVIEWER ACTIVITIES
ARMY - EA
DLA - IS
NSA - NS

This military standard is approved for use by all Departments and Agencies of the Department of Defense.
Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

APPROVED 1 AUG 84
REVISED

PA AR INTERNATIONAL INTEREST
Other Cust SH 99

TITLE
SETScrew, SQUARE HEAD, CUP POINT,
CARBON STEEL, UNC - 2A

MILITARY STANDARD
MS51487

PROCUREMENT SPECIFICATION
FF-S-210

SUPERSEDES

PAGE 1 OF 2

USER ACTIVITIES
ARMY - ME, MI
NAVY - MC, OS

REVIEWER ACTIVITIES
ARMY - EA
DLA - IS
NSA - NS

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selections for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

FED SUP CLASS
5305

REQUIREMENTS:

1. **MATERIAL** CARBON STEEL SHALL BE IN ACCORDANCE WITH ASTM A29-79 GRADE 1010 (UNS G10100) THROUGH GRADE 1020 (UNS G10200), GRADE 1035 (UNS G10350) THROUGH GRADE 1045 (UNS G10450), GRADE 1137 (UNS G11370) THROUGH GRADE 1144 (UNS G11440), GRADE 12L13 (UNS G12134) OR GRADE 12L14 (UNS G12144), IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
2. **HARDNESS** 30-37HRC OR MAY BE SURFACE HARDENED TO NOT LESS THAN 50 SHPTON
3. **FINISH** ZINC COATING IN ACCORDANCE WITH ASTM B633-78, Fe/Zn 5 (5 μm), TYPE II
4. **THREADS** THREADS SHALL BE IN ACCORDANCE WITH FED-STD-429/2. ACCEPTABILITY OF SCREW THREADS SHALL BE IN ACCORDANCE WITH FED-STD-429/20, SYSTEM 21
5. **PART NUMBER** THE BASIC MS PART NUMBER IS FOLLOWED BY A DASH NUMBER FROM TABLE 1
EXAMPLE MS51487-1 - SETSCREW, SQUARE HEAD, CUP POINT, CARBON STEEL, 375-16UNC-2A, LENGTH 2 500, ZINC COATED

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. REFERENCE DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BIDS OR REQUEST FOR PROPOSAL, EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.
3. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

APPROVED 1 AUG 84
REVISED

P.A. Other Cust	AR SH 99	INTERNATIONAL INTEREST	TITLE SETSCREW, SQUARE HEAD, CUP POINT, CARBON STEEL, UNC - 2 A	MILITARY STANDARD MS51487
PROCUREMENT SPECIFICATION FF-S-210	SUPERSEDES		PAGE 2 OF 2	