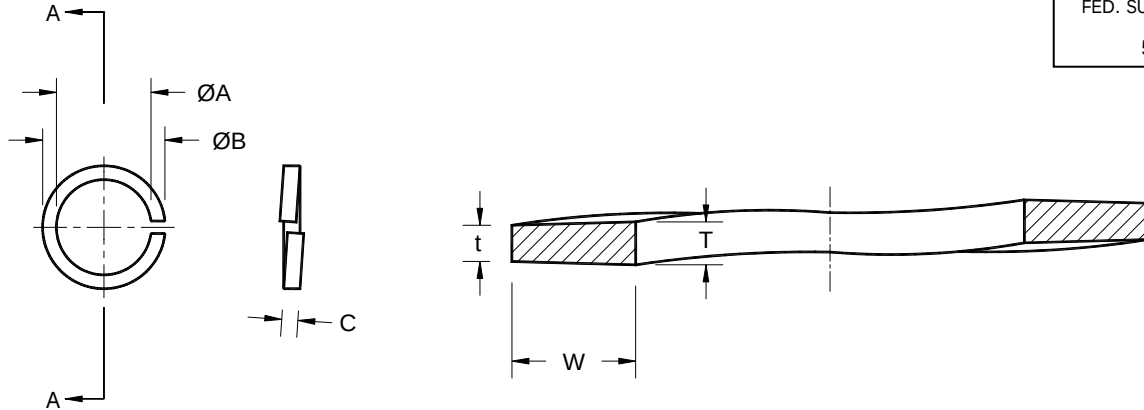


FED. SUPPLY CLASS

5310



SECTION A-A
(ENLARGED AND ROTATED 90° CW)

TABLE I – DASH NUMBER

DASH NO.	SCREW SIZE	ØA INSIDE DIAMETER		W WIDTH	C THICKNESS $\left[\frac{T+t}{2} \right]$		ØB OUTSIDE DIAMETER	WEIGHT POUNDS/ 100 PIECES
		MAX	MIN		MAX	MIN		
0	#0 (.060)	.071	.062	.022	.022 NOM.		.123	.003
1	#1 (.073)	.084	.075	.035	.020 NOM.		.162	.005
2	#2 (.086)	.097	.088	.035	.026	.020	.175	.011
4	#4 (.112)	.124	.115	.040	.031	.025	.212	.017
6	#6 (.138)	.151	.141	.047	.037	.031	.253	.031
8	#8 (.164)	.178	.168	.055	.046	.040	.296	.054
10	#10 (.190)	.205	.194	.062	.053	.047	.337	.079
416	1/4	.267	.255	.109	.072	.062	.493	.259
516	5/16	.333	.319	.125	.088	.078	.591	.444
616	3/8	.398	.382	.141	.104	.094	.688	.700
716	7/16	.464	.446	.156	.119	.109	.784	1.021
816	1/2	.529	.509	.171	.135	.125	.879	1.436
916	9/16	.595	.573	.188	.151	.141	.979	1.977
1016	5/8	.660	.636	.203	.166	.156	1.086	2.587
1216	3/4	.791	.763	.234	.198	.188	1.279	4.293
1416	7/8	.922	.890	.266	.239	.219	1.474	6.739
1616	1	1.053	1.017	.297	.270	.250	1.672	9.662
1816	1-1/8	1.184	1.144	.328	.301	.281	1.865	13.30
2016	1-1/4	1.315	1.271	.359	.332	.312	2.058	17.80
2216	1-3/8	1.446	1.398	.391	.364	.344	2.253	23.40
2416	1-1/2	1.577	1.525	.422	.395	.375	2.446	29.70

③ COMPLETELY REVISED

THIRD
ANGLE
PROJECTION

CUSTODIAN
NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION
3

PROCUREMENT
SPECIFICATION
FF-W-84
EXCEPT AS NOTED

TITLE
WASHER, LOCK, SPRING, NON-MAGNETIC

CLASSIFICATION
PART STANDARD

NAS1640
SHEET 1 OF 2

MATERIAL:

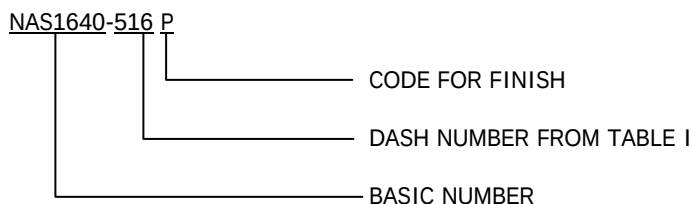
CORROSION RESISTANT STEEL-AUSTENITIC SERIES NON-MAGNETIC COMPOSITION WITH MAGNETIC PERMEABILITY LESS THAN 2.0 (AIR = 1.0) FOR A FIELD STRENGTH OF H = 200 OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR PER ASTM A 342/A 342M OR EQUIVALENT.
ROCKWELL "C" 35-45

FINISH:

PASSIVATE PER SPECIFICATION AMS2700, METHOD 1, CLASS 4
BLACK OXIDE PER SPECIFICATION MIL-DTL-13924, CLASS 3
CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2

CODE:

NO SUFFIX CODE FOR PASSIVATED FINISH
ADD SUFFIX "P" TO DASH NUMBER FOR BLACK OXIDE FINISH
ADD SUFFIX "C" TO DASH NUMBER FOR CADMIUM PLATE



EXAMPLES OF PART NUMBER:

NAS1640-416 - WASHER FOR 1/4 DIA SCREW, PASSIVATED
NAS1640-416P - WASHER FOR 1/4 DIA SCREW, BLACK OXIDE
NAS1640-416C - WASHER FOR 1/4 DIA SCREW, CADMIUM PLATED

NOTES:

- (1) REMOVE ALL BURRS AND SHARP EDGES.
- (2) ALL DIMENSIONS ARE IN INCHES AND APPLY BEFORE FINISH UNLESS OTHERWISE SPECIFIED.
- (3) THESE WASHERS ARE SIMILAR TO WASHERS DEFINED IN NASM35338 EXCEPT MATERIAL IS LIMITED TO 300 SERIES CORROSION RESISTANT STEEL FOR BETTER CORROSION RESISTANCE AND LOWER MAGNETIC PERMEABILITY.
- (4) THIS STANDARD COVERS MEDIUM SERIES LOCKWASHERS; SEE NAS1061 FOR LIGHT SERIES.
- (5) SEE AND10476 FOR LIMITATIONS ON USAGE OF LOCKWASHERS IN AIRFRAME CONSTRUCTION.
- (6) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (7) REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
- (8) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- (9) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED. PARTS WITH CLASS 3 PLATING MAY BE FURNISHED FROM SUPPLIERS' STOCK UNTIL 1 JULY 1976.

REVISION

3

NAS1640
SHEET 2

③ COMPLETELY REVISED



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