

# WASHERS

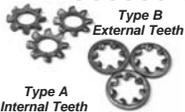


## MS35338 LOCK WASHERS

MS35338 split, helical lock washers are made of carbon steel, cadmium plated per QQ-P-416A, Type II, Class 3. They replace AN935 medium-weight washers. Formerly AN935.

Cad. Plated			Stainless		
Size	Part No.	Price	Part No.	Price	
6	MS35338-41		MS35338-136		
8	MS35338-42		MS35338-137		
10	MS35338-43		MS35338-138		
1/4	MS35338-44		MS35338-139		
5/16	MS35338-45		MS35338-140		
3/8	MS35338-46		MS35338-141		
7/16	MS35338-47		MS35338-142		
1/2	MS35338-48		MS35338-143		

## MS35333 & MS35335 LOCK WASHERS



Provide efficient locking action by spring tension and biting action of tapered twisted teeth. Made of 1050 spring steel and cadmium plated per specification QQ-P-416A, Type II, Class 3. Available with internal teeth (Type A) or external teeth (Type B).

Size	Cad. Plated Part No.	Price Each	Stainless Part No.	Price Each	Cad. Plated Part No.	Price Each
6	MS35333-37		MS35333-71		MS35335-30	
8	MS35333-38		MS35333-72		MS35335-31	
10	MS35333-39		MS35333-73		MS35335-32	
1/4	MS35333-40		MS35333-74		MS35335-33	
5/16	MS35333-41		MS35333-75		MS35335-34	
3/8	MS35333-42		MS35333-76		MS35335-35	
7/16	MS35333-43		MS35333-77		----	---
1/2	MS35333-44		MS35333-78		----	---

## TOOTH LOCKWASHER



MIL-SPEC designations for tooth lockwashers include, but are not limited to MS35335. These are covered by military procurement specification FF-W-100

Nominal Screw Size	Inside Diameter		Outside Diameter		Material Thickness		MS 35335 Steel Plated	P/N	Price
	Min	Max	Min	Max	Min	Max			
9/16	0.576	0.596	0.960	0.985	0.037	0.045	-38	04-00099	\$0.28
3/4	0.768	0.795	1.220	1.260	0.047	0.055	-40	04-00101	\$0.76
7/8	0.897	0.927	1.380	1.410	0.052	0.060	-41	04-00103	\$0.56

## NAS549 PHENOLIC WASHERS

NAS549-10 Phenolic insulating washers for #10 screws. Size: 13/64" I.D. x 7/16" O.D. x 1/16 thick. .... Ea.

## G-8 TINNERMAN WASHERS



A No. 8 "Tinnerman" style washer with the same O.D. as a No. 10 (0.75). Great for those oversize holes in fairings. Unlike the No. 10 washer with a No. 8 screw, these washers will tighten down on the fairing (not bottom out on the cone) thus providing the proper "clamp up" between the fastener and the fairing. The G-8 washers are Made in the USA from 304 (1/2 hard) Stainless Steel and are machine tumbled for a shiny finish.

P/N 04-01989

## TINNERMAN COUNTERSUNK WASHERS



For use with 100° flat-head screws such as MS24693 and MS24694 machine screws and NAS548 sheet metal screws to provide reinforced, low-profile attachments. Made of spring steel, cadmium plated.

Part No.	Screw Size	I.D. In.	O.D. In.	Price Each	Price per 100
A3236-012-24A	#6	.140	.50		
A3135-017-24A	#8	.171	.56		
A3235-028-24A	#10	.196	.75		
A3475-028-24A	1/4	.255	.81		

This washer is raised above fabric surface and screw fits down into washer.

## 82° CSK STAINLESS FINISHING WASHERS



Desc.	Part No.	Price	Desc.	Part No.	Price
WF-4	04-00393		WF-8	04-00395	
WF-6	04-00394		WF-10	04-00396	

## NYLON WASHERS

Part No.	Thread Size	Price Ea.	Part No.	Thread Size	Price Ea.
04-00219	#4		04-00217	#8	
04-00216	#6		04-00218	#10	

Less 20% Discount on 100 per size

## 100° CSK STAINLESS WASHERS



Use with 100° flathead screws to provide reinforced, low-profile attachments.

Size	Dimensions	Part No.	Price
6	.500 OD x .012 T	04-00397	
8	.562 OD x .017 T	04-00392	
10	.750 OD x .020 T	04-00398	

Less 20% Discount on 100 per size



## AN975 TAPER PIN WASHERS

Taper pin washers are used with AN386 threaded taper pins. Manufactured of steel, cadmium plated per QQ-P-416, Type II, Class 2.

AN975 Dash #	Fits Taper Pin #	Price Ea.
-3	1, 2	
-4	3	
-5	4	
-6	5	

## AN960 FLAT WASHERS



AN960 flat washers are used under hex nuts to provide a smooth bearing surface, as shims to obtain the correct grip length for a bolt and nut assembly, and to adjust the position of AN310 and AN320 castle nuts with respect to drilled cotter pin holes in bolts and clevis pins. Available in cadmium plated steel or anodized aluminum, and in regular and light thickness. Add the letter "L" to dash number to indicate light series. For anodized aluminum washers, add the letters "PD" after AN number.

Examples: AN960-416L is a light series cadmium plated steel washer for 1/4" dia. bolt. AN960PD-10 is an anodized aluminum washer for a 3/16" dia. bolt. AN960PD-10L is a light series anodized aluminum washer for a 3/16" dia. bolt.

**NSWC FLAT WASHER KIT** - Contains: • Flat AN960-916 (12 qty) • Flat AN960-616L (4 qty) • Flat AN960-416 (40 qty) • Flat AN960-716L (8 qty) • Flat AN960-616 (40 qty) • Flat AN960-816 (32 qty) • Flat AN960-816L (32 qty) ..... P/N 04-01728

Dash #	Bolt or Screw Size	O.D. (In.)	I.D. (In.)	Thickness		Price	
				Light	Regular	Steel each	Alum. each
-4	No. 4	.312	.125	.016	.032		
-6	No. 6	.375	.149	.016	.032		
-8	No. 8	.375	.174	.016	.032		
-10	No. 10	.438	.203	.032	.063		
-416	1/4"	.500	.265	.032	.063		
-516	5/16"	.562	.328	.032	.063		
-616	3/8"	.625	.390	.032	.063		
-716	7/16"	.750	.453	.032	.063		
-816	1/2"	.875	.515	.032	.063		
-916	9/16"	1.062	.578	.032	.063		
-1016	5/8"	1.118	.640	.032	.063		----
-1216	3/4"	1.312	.765	.032	.090		----

## AN960C STAINLESS WASHERS

Size	Regular		Light	
	Part No.	Price Ea.	Part No.	Price Ea.
4	AN960C4		AN960C4L	
5	----	---	----	---
6	AN960C6		AN960C6L	
8	AN960C8		AN960C8L	
3/16	AN960C10		AN960C10L	
1/4	AN960C416		AN960C416L	
5/16	AN960C516		AN960C516L	
3/8	AN960C616		AN960C616L	
7/16	AN960C716		AN960C716L	
1/2	AN960C816		AN960C816L	
9/16	AN960C916		AN960C916L	
5/8	AN960C1016		AN960C1016L	
3/4	AN960C1216		----	----



## AN970 FLAT WASHERS

Manufactured of carbon steel, cadmium plated per QQ-P-416C, Type II, Class 2. They provide a greater bearing area than AN960 washers. Used on wooden structures under both the head of the bolt & the nut to prevent crushing the surface.

Dash No.	Bolt Size	O.D. (In.)	I.D. (In.)	Thk (In.)	Price Each	Price per 100
-3	3/16"	.875	.203	.063		
-4	1/4"	1.125	.265	.063		
-5	5/16"	1.375	.328	.063		
-6	3/8"	1.625	.390	.063		
-7	7/16"	1.812	.453	.109		
-8	1/2"	2.000	.515	.109		
-10	5/8"	2.375	.640	.125		



## FINISHING WASHERS

Finishing washers are used in non-structural interior and upholstery applications. The parts covered by NAS390 & NAS391 are getting harder to procure and do not necessarily conform exactly to all of the dimensions stated on the specs. Commercial equivalents can be supplied and are suggested. These are non-critical washers that are readily available and cost effective.

Screw or Bolt Size	Countersink Washer Part No.	Price		Flush Washer Part No.	Price	
		Each	100		Each	100
#4	NAS391B4P			NAS390B4P	--	--
#6	NAS391B6P			NAS390B6P		
#8	NAS391B8P			NAS390B8P		
#10	NAS391B10P			NAS390B10P		

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