

# WASHERS



## 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 steel |         | Thickness Aluminum |         | Price      |            |
|--------|--------------------|------------|------------|-----------------|---------|--------------------|---------|------------|------------|
|        |                    |            |            | Light           | Regular | Light              | Regular | Steel each | Alum. each |
| -3     | No. 3              | .250       | .105       | .016            | .032    | .016               | .032    | .          | ----       |
| -4     | No. 4              | .312       | .125       | .016            | .032    | .016               | .032    | .          | .          |
| -5     | No. 5              | .438       | .14        | ---             | .042    | ---                | ---     | .          | ----       |
| -6     | No. 6              | .375       | .149       | .016            | .032    | .016               | .032    | .          | .          |
| -8     | No. 8              | .375       | .174       | .016            | .032    | .016               | .032    | .          | .          |
| -10    | No. 10             | .438       | .203       | .032            | .063    | .032               | .063    | .          | .          |
| -416   | 1/4"               | .500       | .265       | .032            | .063    | .016               | .063    | .          | .          |
| -516   | 5/16"              | .562       | .328       | .032            | .063    | .016               | .063    | .          | .          |
| -616   | 3/8"               | .625       | .390       | .032            | .063    | .016               | .063    | .          | .          |
| -716   | 7/16"              | .750       | .453       | .032            | .063    | .016               | .063    | .          | .          |
| -816   | 1/2"               | .875       | .515       | .032            | .063    | .016               | .063    | .          | .          |
| -916   | 9/16"              | 1.062      | .578       | .032            | .063    | .016               | .063    | .          | ----       |
| -1016  | 5/8"               | 1.188      | .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. Part numbers with a "C" are stainless steel.

| 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      | .          | .             |
| -C4      | 1/4"      | 1.125      | .265       | .063      | .          | ----          |
| -5       | 5/16"     | 1.375      | .328       | .063      | .          | .             |
| -C5      | 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      | .          | .             |
| -9       | 9/16"     | 2.188      | .578       | .125      | .          | ----          |
| -10      | 5/8"      | 2.375      | .640       | .125      | .          | .             |

## MS20002C5 COUNTER SUNK WASHER

MS20002C5 Counter Sunk Washer to fit size 5/16".  
Cadmium plated alloy steel. ....P/N 04-03974.....



## NAS620 FLAT WASHERS

MIL-SPEC designations for flat washers, NAS620. Covered by military procurement specification FF-W-92 which has, as minimum requirements.

1. Chemical analysis
2. Process certification on protective finish
3. Workmanship
4. Magnetic permeability (stainless steel only)

| Description | Part No.  | Price | Description | Part No.  | Price |
|-------------|-----------|-------|-------------|-----------|-------|
| NAS620-4    | NAS620-4  | .     | NAS620-8L   | NAS620-8L | .     |
| NAS620-6    | NAS620-6  | .     | NAS620-10   | NAS620-10 | .     |
| NAS620-6L   | NAS620-6L | .     | NAS620-10L  | 04-00854  | .     |
| NAS620-8    | NAS620-8  | .     |             |           |       |



## MS15795 FLAT WASHERS

Material - 300 Series Stainless Steel  
Finish - Passivate Per Astm A380

| MS15795 Dash No. | O.D. (in.) | I.D. (in.) | Thickness | Price |
|------------------|------------|------------|-----------|-------|
| MS15795-802      | 0.094      | 2.50       | 0.020     | .     |
| MS15795-803      | 0.125      | 0.250      | 0.022     | .     |
| MS15795-805      | 0.156      | 0.312      | 0.035     | .     |
| MS15795-806      | 0.156      | 0.375      | 0.049     | .     |
| MS15795-807      | 0.188      | 0.375      | 0.049     | .     |
| MS15795-808      | 0.219      | 0.438      | 0.049     | .     |



## NAS1515H FLAT WASHERS

Made out of Plastic Polyhexamethylene Adipamide Overall.

| OEM P/N     | Size No. | Thickness | Part Number | Price |
|-------------|----------|-----------|-------------|-------|
| NAS1515H04L | #4       | 1/32      | 04-04014    | .     |
| NAS1515H06L | #6       | 1/32      | 04-04015    | .     |
| NAS1515H08L | #8       | 1/32      | NAS1515H08L | .     |
| NAS1515H08  | #8       | 1/16      | 04-04016    | .     |
| NAS1515H3   | #10      | 1/16      | 04-04018    | .     |
| NAS1515H4   | 1/4      | 1/16      | 04-04019    | .     |



## NAS43HT4 SPACERS

NAS43HT4 Spacers.  
Material - 4130 Steel Alloy

| Manufacturer | Length          | Part No. | Price |
|--------------|-----------------|----------|-------|
| NAS43HT4-9   | 0.1406 = 9/64   | 06-02534 | .     |
| NAS43HT4-16  | 0.250 = 1/4     | 06-02529 | .     |
| NAS43HT4-22  | 0.34 = 11/32    | 06-02530 | .     |
| NAS43HT4-28  | 0.4375 = 7/16   | 06-02531 | .     |
| NAS43HT4-43  | 0.6718 = 43/64  | 06-02532 | .     |
| NAS43HT4-46  | 0.71875 = 23/32 | 06-02533 | .     |



## NORD-LOCK WEDGE LOCKING WASHERS

Nord-Lock washers secure bolted joints with tension instead of friction. It is a high quality product with documented success in many industries worldwide.

| Bolt Size | Description                   | Part No. | Price |
|-----------|-------------------------------|----------|-------|
| #10       | Carbon Steel Washer NL 1/4    | 04-03873 | .     |
| 1/4"      | Carbon Steel Washer NL 1/4    | 04-03874 | .     |
| 5/16"     | Carbon Steel Washer NL8       | 04-03875 | .     |
| 5/16"     | Carbon Steel Washer NL8 sp    | 04-03876 | .     |
| 3/8"      | Carbon Steel Washer NL 3/8    | 04-03877 | .     |
| 7/16"     | Carbon Steel Washer NL11      | 04-03878 | .     |
| --        | Carbon Steel Washer NL12 sp   | 04-03879 | .     |
| 1/2"      | Carbon Steel Washer NL 1/2    | 04-03880 | .     |
| 1/2"      | Carbon Steel Washer NL 1/2 sp | 04-03881 | .     |