

# 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 | .     |

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## MS35333 & MS35335 LOCK WASHERS



Type B  
External  
Teeth

Type A  
Internal  
Teeth

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).

| Type   | Size | Cad Plated Part No. | Price Cad. Plated | Stainless Part No. | Price Stainless |
|--------|------|---------------------|-------------------|--------------------|-----------------|
| Type A | 6    | MS35333-37          | .                 | MS35333-71         | .               |
| Type A | 8    | MS35333-38          | .                 | MS35333-72         | .               |
| Type A | 10   | MS35333-39          | .                 | MS35333-73         | .               |
| Type A | 1/4  | MS35333-40          | .                 | MS35333-74         | .               |
| Type A | 5/16 | MS35333-41          | .                 | MS35333-75         | .               |
| Type A | 3/8  | MS35333-42          | .                 | MS35333-76         | .               |
| Type A | 7/16 | MS35333-43          | .                 | MS35333-77         | .               |
| Type A | 1/2  | MS35333-44          | .                 | MS35333-78         | .               |
| Type A | 5/8  | MS35333-46          | .                 | --                 | --              |
| Type B | 6    | MS35335-30          | .                 | MS35335-58         | .               |
| Type B | 8    | MS35335-31          | .                 | MS35335-59         | .               |
| Type B | 10   | MS35335-32          | .                 | MS35335-60         | .               |
| Type B | 1/4  | MS35335-33          | .                 | MS35335-61         | .               |
| Type B | 5/16 | MS35335-34          | .                 | MS35335-62         | .               |
| Type B | 3/8  | MS35335-35          | .                 | --                 | --              |
| Type B | 1/2  | MS35335-37          | .                 | --                 | --              |



## 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 | Part No. | Price |
|--------------------|-----------------|-------|------------------|-------|--------------------|-------|-----------------------|----------|-------|
|                    | Min             | Max   | Min              | Max   | Min                | Max   |                       |          |       |
| 9/16               | 0.576           | 0.596 | 0.960            | 0.985 | 0.037              | 0.045 | -38                   | 04-00099 | .     |
| 3/4                | 0.768           | 0.795 | 1.220            | 1.260 | 0.047              | 0.055 | -40                   | 04-00101 | .     |
| 7/8                | 0.897           | 0.927 | 1.380            | 1.410 | 0.052              | 0.060 | -41                   | 04-00103 | .     |

## 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 TINNEMAN 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, Zinc Plated.

| Part No.      | Screw Size | I.D. In. | O.D. In. | Price Each | Price per 100 |
|---------------|------------|----------|----------|------------|---------------|
| A3236-012-193 | #6         | .140     | .50      | .          | ---           |
| A3135-017-193 | #8         | .171     | .56      | .          | .             |
| A3235-028-193 | #10        | .196     | .75      | .          | .             |

## NYLON WASHERS

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

## 82° COUNTERSUNK 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                 | 04-03898                    | .     | .   | NAS390B4P             | --    | --  |
| #6                 | 04-03899                    | .     | .   | 04-03895              | .     | .   |
| #8                 | 04-03901                    | .     | .   | 04-03896              | .     | .   |
| #10                | 04-01946                    | .     | .   | 04-03897              | .     | .   |

## POLYMER SPINNER WASHERS



Propeller spinner washers are typically made from thin nylon. They are usually replaced every time the spinner is removed because the screw pressure against the spinner curvature causes the nylon washers to fail. Instead of nylon, these washers are machined from an extruded billet of a, very tough polymer material – the toughest we

make – so they won't crack or extrude. The washers easily conform to the spinner's curved surface and will serve without replacement for a very long time. In fact, they may never need replacement! Fits a # 10 screw, with a diameter and thickness to suit the round head stainless

**Screws Not Included Packaged In Bags Of 25.**

P/N 05-12883 .....