

# USABAND™

"Over 50 years of American Quality"





# USABAND

"Over 60 Years of American Quality"

## Light Duty Band, Buckles and Tools

### USABAND

#### TYPE 201 STAINLESS STEEL — 100 Ft. Per Roll in Cardboard Carton

| Catalog<br>Number | Width  |       | Thickness |      | Weight |     |
|-------------------|--------|-------|-----------|------|--------|-----|
|                   | Inches | mm    | Inches    | mm   | Lbs    | Kg  |
| 812202.1          | 1/4    | 6.35  | .020      | 0.51 | 1.7    | 0.9 |
| 812203.1          | 3/8    | 9.53  | .025      | 0.63 | 3.2    | 1.6 |
| 812204.1          | 1/2    | 12.70 | .030      | 0.76 | 5.1    | 2.4 |
| 812205.1          | 5/8    | 15.88 | .030      | 0.76 | 6.4    | 3.0 |
| 812206.1          | 3/4    | 19.05 | .030      | 0.76 | 7.7    | 3.6 |

All **USABAND** 100 ft banding is also offered in plastic totes.

### Buckles

#### TYPE 201 STAINLESS STEEL BUCKLES — In Cardboard Boxes 100 Per Box

| Catalog<br>Number | Width  |       | Weight |     |
|-------------------|--------|-------|--------|-----|
|                   | Inches | mm    | Lbs    | Kg  |
| 812252.1          | 1/4    | 6.35  | 0.3    | 0.1 |
| 812253.1          | 3/8    | 9.53  | 0.8    | 0.4 |
| 812254.1          | 1/2    | 12.70 | 2.1    | 1.0 |
| 812255.1          | 5/8    | 15.88 | 2.5    | 1.1 |
| 812256.1          | 3/4    | 19.05 | 3.7    | 1.7 |

#### TYPE 316 STAINLESS STEEL BAND — In Cardboard Boxes 100 Ft Per Roll

| Catalog<br>Number | Width  |       | Thickness |      | Weight |     |
|-------------------|--------|-------|-----------|------|--------|-----|
|                   | Inches | mm    | Inches    | mm   | Lbs    | Kg  |
| 812403.1          | 3/8    | 9.53  | 0.025     | 0.63 | 3.2    | 1.6 |
| 812404.1          | 1/2    | 12.70 | 0.030     | 0.76 | 5.6    | 2.4 |
| 812405.1          | 5/8    | 15.88 | 0.030     | 0.76 | 6.5    | 3.0 |
| 812406.1          | 3/4    | 19.05 | 0.030     | 0.76 | 7.9    | 3.6 |

All **USABAND** 100 ft banding is also offered in plastic totes.

#### TYPE 316 STAINLESS STEEL BUCKLES — In Cardboard Boxes 100 Pcs Per Box

| Catalog<br>Number | Width  |       | Weight |       |
|-------------------|--------|-------|--------|-------|
|                   | Inches | mm    | Lbs    | Kg    |
| 812453.1          | 3/8    | 9.53  | 0.975  | 0.443 |
| 812454.1          | 1/2    | 12.70 | 2.890  | 1.300 |
| 812455.1          | 5/8    | 15.88 | 3.100  | 1.400 |
| 812456.1          | 3/4    | 19.05 | 4.200  | 1.900 |

#### USABAND TOOL — To Be Used With **USABAND** Light Duty Banding and Buckles

A drop forged tool with tensioning capability of over 2,400 lbs. and a built-in cutter. New, improved features include: A spring loaded gripper lever for improved banding tensioning. A friction held cutoff lever with plastic grip for easier operation. Permanent lubrication on the tension screw to extend tool life and speed clamping. A zinc plated chromate finish to provide superior corrosion resistance. A spin handle retaining ring keeps parts intact. The banding tool is used to apply **USABAND** banding buckles and strapping.

| Catalog<br>Number | Description                                     |
|-------------------|---|
| 812001            | The Banding Tool Pkg Qty 1. Wt 4.4 lbs (2.0 kg) |

**USABAND** also offers replacement parts for this tool upon request.





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## HEAVY DUTY BAND, BUCKLES AND TOOLS

Heavy duty banding is available in Type 201 stainless steel bright finish as well as the duller Matte finish (upon request). It is used for heavy-duty clamping applications. The .044" thick band in Type 201 stainless steel has a breaking strength of 5,500 lbs. double wrapped clamps are recommended for maximum strength.

### TYPE 201 BAND — 100 Ft. Per Roll

| Catalog Number | Width  |       | Thickness |      | Weight |     |
|----------------|--------|-------|-----------|------|--------|-----|
|                | Inches | mm    | Inches    | mm   | Lbs    | Kg  |
| 812430.1       | 3/4    | 19.05 | .044      | 1.12 | 11.6   | 5.4 |
| 812431.1       | 1      | 25.40 | .044      | 1.12 | 13.7   | 6.9 |
| 812432.1       | 1 1/4  | 31.75 | .044      | 1.12 | 17.2   | 8.6 |



## HEAVY DUTY BUCKLES

HD Buckles are offered in widths and metals to correspond to HD band. Clamps may be double wrapped for extra strength.

### TYPE 201 STAINLESS STEEL BUCKLES — Packaging Quantity 25

| Catalog Number | Width  |       | Weight |     |
|----------------|--------|-------|--------|-----|
|                | Inches | mm    | Lbs    | Kg  |
| 812440.1       | 3/4    | 19.05 | 1.9    | 0.9 |
| 812441.1       | 1      | 25.40 | 2.5    | 1.1 |
| 812442.1       | 1 1/4  | 31.75 | 3.3    | 1.5 |



## HEAVY DUTY TOOL

The **USABAND** Heavy Duty Tool has all the improved features of our standard duty tool. This HD Tool measures 16 1/2" in length and is designed to have a tension capacity of 6,600 lbs. The **USABAND** Heavy Duty Tool must be used with **USABAND** Heavy Duty banding and buckles only.

| Catalog Number | Description                                |
|----------------|--|
| 812110         | The HD Tool Pkg Qty 1. Wt 11.7 lbs(5.3 kg) |





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## USABAND Special Order Products

### GALVANIZED CARBON STEEL

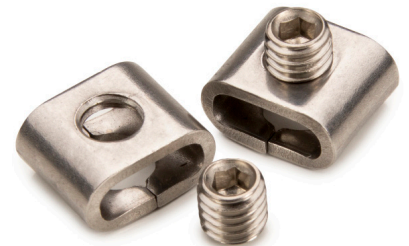
#### GALVANIZED CARBON STEEL In Cardboard Box--100 Ft. Per Roll

| Catalog Number | Width  |       | Thickness |      | Weight |     |
|----------------|--------|-------|-----------|------|--------|-----|
|                | Inches | mm    | Inches    | mm   | Lbs    | Kg  |
| 812303.1       | 3/8    | 9.53  | 0.025     | 0.63 | 3.3    | 1.6 |
| 812304.1       | 1/2    | 12.70 | 0.030     | 0.76 | 5.1    | 2.4 |
| 812305.1       | 5/8    | 15.88 | 0.030     | 0.76 | 6.4    | 3.0 |
| 812306.1       | 3/4    | 19.05 | 0.030     | 0.76 | 7.7    | 3.6 |



#### A-SCREW LOCK BUCKLES--STAINLESS STEEL (TYPE 304 SST.)

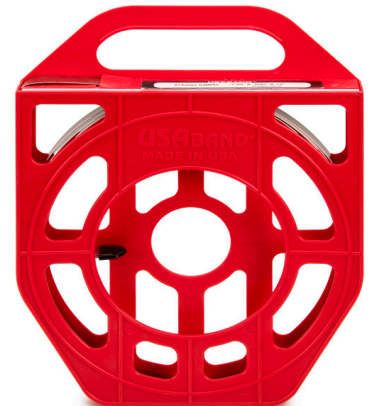
| Catalog Number | Width  |       | Weight |      | Pkg. Qty. |
|----------------|--------|-------|--------|------|-----------|
|                | Inches | mm    | Lbs    | Kg   |           |
| 812724         | 1/2    | 12.70 | 0.55   | 0.25 | 25        |
| 812725         | 5/8    | 15.88 | 0.75   | 0.34 | 25        |
| 812726         | 3/4    | 19.05 | 0.95   | 0.43 | 25        |



### USA Band-Strap

#### BAND-STRAP .025 (.64 MM) THICK TYPE 201 STAINLESS STEEL

| Catalog Number | Width  |       | Weight |      | Quantity/Roll |
|----------------|--------|-------|--------|------|---------------|
|                | Inches | mm    | Lbs    | Kg   |               |
| 812171         | 1/2    | 12.70 | 4.00   | 1.19 | 100 Ft.       |
| 812181         | 5/8    | 15.88 | 5.25   | 2.39 | 100 Ft.       |
| 812191         | 3/4    | 19.05 | 6.10   | 2.78 | 100 Ft.       |
| 812173         | 1/2    | 12.70 | 8.10   | 3.70 | 200 Ft.       |
| 812183         | 5/8    | 15.88 | 10.8   | 4.90 | 200 Ft.       |
| 812193         | 3/4    | 19.05 | 12.2   | 5.54 | 200 Ft.       |



### USA BAND-CLIPS

#### STAINLESS STEEL BAND-CLIPS -- Package Quantity --100 Per Box (TYPE 304 SST.)

| Catalog Number | Width  |       | Weight |     |
|----------------|--------|-------|--------|-----|
|                | Inches | mm    | Lbs    | Kg  |
| 812153         | 3/8    | 9.53  | 0.5    | 0.2 |
| 812154         | 1/2    | 12.70 | 1.0    | 0.4 |
| 812155         | 5/8    | 15.88 | 1.1    | 0.5 |
| 812156         | 3/4    | 19.05 | 2.0    | 0.9 |



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## SIGN MOUNTING BRACKETS

### 1-BOLT STRAIGHT LEG BRACKET (.075" THICK) - 50 PER BOX

| Catalog Number | Description   | Weight |     |
|----------------|---|--------|-----|
|                |   | LBS    | Kg  |
| 812100         | Stainless Steel Bracket With SS Bolt Washer and Nylon Washer        | 7.3    | 3.3 |
| 812004         | Stainless Steel Bracket, No Bolt or Washers                         | 5.9    | 2.7 |
| 812032         | Zinc Plated Steel Brackets With Carbon Bolt Washer and Nylon Washer | 7.6    | 3.5 |
| 812014         | Zinc Plated Steel Bracket, No Bolt Or Washer                        | 6.2    | 2.8 |



### 1-BOLT FLARED LEG BRACKET (.075" THICK) - 50 PER BOX

| Catalog Number | Description   | Weight |     |
|----------------|---|--------|-----|
|                |   | LBS    | Kg  |
| 812021         | Stainless Steel Bracket With SS Bolt, Washer and Nylon Washer | 7.3    | 3.3 |
| 812022         | Stainless Bracket, No Bolt or Washer                          | 5.9    | 2.7 |

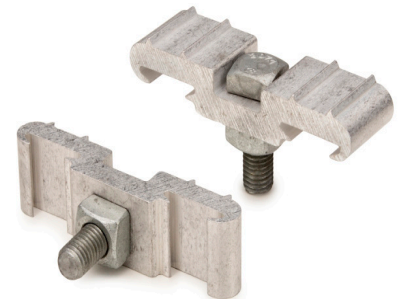


**We Also Offer 2-Bolt Flared Leg And Straight Leg Bracket Upon Request**

## MOUNTING PLATES -- Secure With Band and Buckles -- Sold by each

Strapping holds this extruded aluminum mounting plate to utility poles. Includes plated  $\frac{5}{8}$ " - 11 x 2" bolt and nut

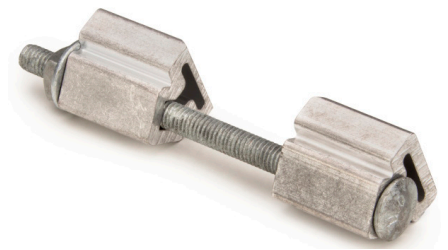
| Catalog Number | Description   |
|----------------|---|
| 812510         | Mounting Plates<br>1½" x 4¾" with 2" Galv. Bolt                 |
| 812512         | Heavy Duty Mounting Plate<br>1½" x 5¼" with 2" or 3" Galv. Bolt |



## BOLT CLAMPS-Sold by each

Extruded aluminum fittings with galvanized plated bolt, nut and washer. To be used with **USABAND** bands for mounting pole hardware.

| Catalog Number | Description   |
|----------------|---|
| 812500         | Bolt clamp for use with <b>USABAND</b> ¾" (812206) band. Includes galv. nut, bolt $\frac{3}{8}$ " - 16 x 6" and washer. |
| 812504         | Bolt clamp for use with <b>USABAND</b> 1¼" (812432) band. Includes galv. nut & $\frac{5}{8}$ " - 11 x 8" and washer.    |



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## DEAD END GUY-Sold by each

812514 Non-insulated Dead End Guy w/extruded aluminum pole mts bracket and cast aluminum cable mount. Dead End Guy comes fully assembled with 5/8" x 3" clevis pin and 3/16" x 1 1/2" cotter pin.

## USABAND BOLT/BAND ASSEMBLIES

### 812500 TO BE USED WITH 3/4" (812206) BAND

| Catalog Number | Description            | Pole Dia. Inches | Range CM |
|----------------|------------------------|------------------|----------|
| 812343         | 812500 w/36" of 812206 | 8" to 10"        | 20 to 25 |
| 812345         | 812500 w/48" of 812206 | 10" to 13"       | 25 to 33 |
| 812346         | 812500 w/60" of 812206 | 13" to 17"       | 33 to 43 |
| 812347         | 812500 w/72" of 812206 | 17" to 21"       | 43 to 53 |

### 812504 TO BE USED WITH 1 1/4"(812432) BAND

|        |                        |            |          |
|--------|------------------------|------------|----------|
| 812143 | 812504 w/36" of 812432 | 8" to 10"  | 20 to 25 |
| 812145 | 812504 w/48" of 812432 | 10" to 13" | 25 to 33 |
| 812146 | 812504 w/60" of 812432 | 13" to 17" | 33 to 43 |
| 812147 | 812504 w/72" of 812432 | 17" to 21" | 43 to 53 |
| 812148 | 812504 w/80" of 812432 | 21" to 24" | 53 to 61 |

**POLE HARDWARE MOUNTING KIT** -- each kit contains one mounting plate and Two - bolt clamp assemblies w/pre-cut band. (Prices on request)

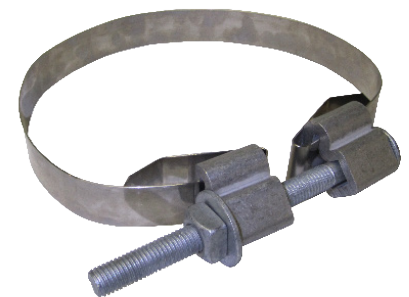
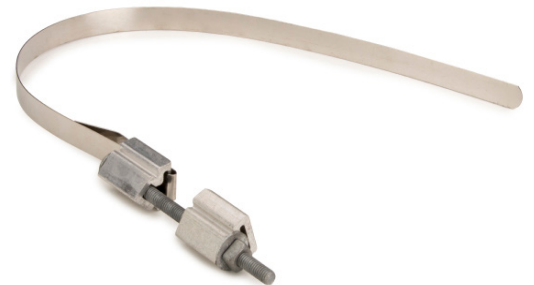
| Catalog Number | Description                  | Pole Dia. Inches | Range CM |
|----------------|------------------------------|------------------|----------|
| 850343         | 1pc-812510 and 2pcs - 812343 | 8" to 10"        | 20 to 25 |
| 850345         | 1pc-812510 and 2pcs - 812345 | 10" to 13"       | 25 to 33 |
| 850346         | 1pc-812510 and 2pcs - 812346 | 13" to 17"       | 33 to 43 |
| 850347         | 1pc-812510 and 2pcs - 812347 | 17" to 21"       | 43 to 53 |
| 850348         | 1pc-812510 and 2pcs - 812348 | 21" to 24"       | 53 to 61 |
| 850143         | 1pc-812504 and 2pcs - 812143 | 8" to 10"        | 20 to 25 |
| 850145         | 1pc-812504 and 2pcs - 812145 | 10" to 13"       | 25 to 33 |
| 850146         | 1pc-812504 and 2pcs - 812146 | 13" to 17"       | 33 to 43 |
| 850147         | 1pc-812504 and 2pcs - 812147 | 17" to 21"       | 43 to 53 |
| 850148         | 1pc-812504 and 2pcs - 812148 | 21" to 24"       | 53 to 61 |

## Lashed Cable Support-Sold by Pack 500 pcs.(*Special Order*)

Used to strap coaxial and telephone cable to strand.

Edges are processed to remove raised and projecting metal. Edges are smooth and free from burrs.

| Catalog Number | Description  |
|----------------|--|
| 816110         | 10" Stainless Steel - Diameter 1.2 - Bundle Circumference 3.8" |
| 816116         | 16" Stainless Steel - Diameter 2" - Bundle Circumference 6.3"  |



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## USABAND TOTES

**USABAND** stainless steel band now available in handy, waterproof plastic packaging. The totes are color-coded for easy identification. The totes come in a variety of steel types. Such as, 201 (shiny and matte finish) and 316. The totes are 100" ft per roll (30.5M)

| Catalog Number | Width  |       | Thickness |      | Weight |     |
|----------------|--------|-------|-----------|------|--------|-----|
|                | Inches | mm    | Inches    | mm   | Lbs    | Kg  |
| 812203T        | 3/8"   | 9.53  | 0.025     | 0.63 | 3.62   | 1.6 |
| 812204T        | 1/2"   | 12.7  | 0.03      | 0.76 | 5.56   | 2.5 |
| 812205T        | 5/8"   | 15.88 | 0.03      | 0.76 | 6.85   | 3.1 |
| 812206T        | 3/4"   | 19.05 | 0.03      | 0.76 | 8.16   | 3.7 |
| 812430T        | 3/4"   | 19.05 | 0.044     | 1.12 | 12.1   | 8.2 |



## Powdercoated Banding

**USABAND** Banding Is Colorful UV Resistant Banding To Suit Your Needs For Color Coding or Camouflaging Your Clamps

Powdercoating Color Can Be Matched For Your Existing Hardware or Select From An RAL Color Chart

Other Lengths And Thickness Are Available Upon Request







"Over 60 Years of American Quality"

TYPICAL MINIMUM BREAKING STRENGTH OF USABAND BANDS:

(VALUES SHOWN IN POUNDS)

STAINLESS STEEL:

CARBON STEEL:

| <u>THICKNESS</u> | <u>WIDTH</u> | <u>TYPE</u> | <u>FORCE</u> | <u>THICKNESS</u> | <u>WIDTH</u> | <u>FORCE</u> |
|------------------|--------------|-------------|--------------|------------------|--------------|--------------|
| .015             | 3/8          | 201         | 450          | .025             | 3/8          | 700          |
| .015             | 1/2          | 201         | 600          | .030             | 1/2          | 1125         |
| .015             | 5/8          | 201         | 750          | .030             | 5/8          | 1405         |
| .015             | 3/4          | 201         | 900          | .030             | 3/4          | 1690         |
| .020             | 1/4          | 201         | 500          | .048             | 3/4          | 2700         |
| .020             | 1/4          | 316         | 400          | .048             | 1            | 3600         |
|                  |              |             |              | .048             | 1 1/4        | 4500         |
| .023             | 3/8          | 201         | 675          |                  |              |              |
| .023             | 1/2          | 201         | 955          |                  |              |              |
| .023             | 5/8          | 201         | 1125         |                  |              |              |
| .023             | 3/4          | 201         | 1435         |                  |              |              |
| .025             | 3/8          | 201         | 900          |                  |              |              |
| .025             | 3/8          | 316         | 750          |                  |              |              |
| .030             | 1/2          | 201         | 1500         |                  |              |              |
| .030             | 1/2          | 316         | 1200         |                  |              |              |
| .030             | 5/8          | 201         | 1875         |                  |              |              |
| .030             | 5/8          | 316         | 1500         |                  |              |              |
| .030             | 3/4          | 201         | 2250         |                  |              |              |
| .030             | 3/4          | 316         | 1800         |                  |              |              |
| .044             | 3/4          | 201         | 3300         |                  |              |              |
| .044             | 1            | 201         | 4400         |                  |              |              |
| .044             | 1 1/4        | 201         | 5500         |                  |              |              |
| .044             | 1 1/2        | 201         | 6600         |                  |              |              |

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| 316  | 317L   | 410  | 430   | Monel 400  | Inconel 625   | Titanium GR1   | GCS 1045-1055   |
|--|--|--|---|--|---|--|---|
| C 0.08 Max.<br>Mn 2.00 Max.<br>Si 1.00 Max.<br>Cr 16.00-18.00<br>Ni 10.00-14.00<br>Mo 2.00- 3.00 | C 0.08 Max.<br>Mn 2.00 Max.<br>Si 1.00 Max.<br>Ni 11.00-15.00<br>Cr 18.00-20.00<br>P .04 Max.<br>S .03 Max.<br>Mo 3.00- 4.00 | C 0.15 Max.<br>Cr 11.50-13.50<br>Mn 1.00 Max.<br>Si 1.00 Max.<br>P 0.040 Max.<br>S 0.030 Max.      | C 0.12 Max.<br>Cr 16.00-18.00<br>Mn 1.00 Max.<br>Si 1.00 Max.<br>P 0.040 Max.<br>S 0.030 Max. | C 0.30 Max.<br>Mn 1.25 Max.<br>Si 0.50 Max.<br>Ni 63.0-70.0<br>Cu 31.5<br>Fe 1.25 Max.<br>S 0.024 Max. | C 0.1 Max.<br>Cr 20.0-23.0<br>Mn 0.5 Max.<br>Mo 8.0-10.0<br>Ti 0.4 Max.<br>Fe 2.5 Max.<br>Al 0.4 Max.<br>Ni Balance | C .10 Max.<br>N .03 Max.<br>H .015 Max.<br>O .18 Max.<br>Fe .20 Max.<br>Ti Balance | C .40-60<br>Mn .60-.90<br>P .040 Max.<br>S .050 Max.                          |
| 0.29   | 0.29   | 0.28   | 0.28  | .319   | .305  | .163   | .283  |
| 28.0   | 28.0   | 29.0   | 29.0  | 26.0   | 30.0  | 15.0   | 30  |
| Austenitic   | Austenitic   | Martensitic  | Ferritic  | —  | —   | Alpha  | Ferritic  |
| 0.12   | 0.12   | 0.11   | 0.11  | .099   | .095  | .124   | .12   |
| 9.4<br>12.4  | 9.4<br>12.4  | 14.4<br>16.6   | 15.1<br>15.2  | 14.0<br>21.0   | —<br>—  | 10<br>11   | 29.3<br>21.9  |
| 8.9<br>9.0<br>9.7<br>10.3  | 8.9<br>9.0<br>9.7<br>10.3  | 5.5<br>6.3<br>6.4<br>6.5   | 5.8<br>6.1<br>6.3<br>6.6  | 7.7<br>8.8<br>9.1<br>9.3   | —<br>—<br>—<br>—  | 4.6<br>5.3<br>5.5<br>5.7   | 6.3<br>7.3<br>7.9<br>8.2  |
| 2500-2550°F.   | 2500-2550°F.   | 2700-2790°F.   | 2600-2750°F.  | 2370-2460°F.   | 2350-2460°F.  | 3030-3080°F.   | —   |
| Non-Magnetic<br>$\mu = 1.008$<br>74.0  | Non-Magnetic<br>$\mu = 1.008$<br>74.0  | Magnetic<br>$\mu = 700-1000$<br>57.0   | Magnetic<br>$\mu = 800-1100$<br>60.0  | —<br>—<br>5.1  | Non-Magnetic<br>1.006<br>12.9   | Non-Magnetic<br>1.00005<br>4.20  | Magnetic<br>1500-2000<br>17.2   |
| 70-85 R <sub>B</sub>   | 70-85 R <sub>B</sub>   | 75-85 R <sub>B</sub>   | 75-90 R <sub>B</sub>  | 60-80 R <sub>B</sub>   | 88-94 R <sub>B</sub>  | 64-70 R <sub>B</sub>   | 80-95 R <sub>B</sub>  |
| 80,000<br>90,000   | 75,000<br>85,000   | 65,000<br>85,000   | 65,000<br>75,000  | 70,000<br>75,000   | 120,000<br>130,000  | 35,000<br>48,000   | 75,000<br>80,000  |
| 35,000<br>50,000   | 30,000<br>45,000   | 35,000<br>60,000   | 40,000<br>55,000  | 32,000<br>40,000   | 60,000<br>75,000  | 25,000<br>31,000   | 55,000<br>65,000  |
| 35<br>45   | 35<br>45   | 20<br>30   | 20<br>25  | 35<br>40   | 30<br>40  | 40<br>50   | 10<br>14  |
| 0.400-0.500  | 0.400-0.500  | .275-.350  | .300-.400   | —  | —   | —  | —   |
| 22,400<br>16,800<br>11,200<br>6,900  | 22,400<br>16,800<br>11,200<br>6,900  | 12,000<br>5,500<br>2,600<br>1,600  | 8,400<br>4,900<br>2,200<br>1,400  | —<br>—<br>—<br>—   | —<br>—<br>—<br>—  | —<br>—<br>—<br>—   | —<br>—<br>—<br>—  |
| 48,000<br>28,000<br>18,000   | 48,000<br>28,000<br>18,000   | 15,000<br>9,000<br>8,500   | 15,000<br>8,000<br>5,000  | —<br>—<br>—  | —<br>—<br>—   | —<br>—<br>—  | —<br>—<br>—   |
| Non-Hardening  | Non-Hardening  | Heat Treatable   | Non-Hardening   | —  | Non-Hardening   | Non-Hardening  | Annealed  |
| 1700°F.<br>1550°F.   | 1700°F.<br>1550°F.   | 1300°F.<br>1450°F.   | 1550°F.<br>1650°F.  | 1600°F.<br>1100°F.   | 2000°F.   | —  | —   |
| Very Good<br>Tough Welds   | Good Tough Welds   | Fair, Preheat<br>400-500°F.<br>Anneal 1250°F.<br>After Welding                                     | Fair, Non-Ductile<br>Welds, Some<br>Response to<br>Annealing.                                 | Good   | Good  | Good   | Good  |
| Excellent<br>Very Good<br>Very Good<br>Good<br>Good<br>Good<br>Good                              | Excellent<br>Very Good<br>Very Good<br>Good<br>Very Good<br>Good<br>Good   | Good<br>Fair<br>Poor<br>No<br>Fair<br>No<br>No   | Good<br>Good<br>Poor<br>No<br>Fair<br>Fair<br>No  | Good<br>Good<br>Excellent<br>Excellent<br>Good<br>Good<br>Good   | Good<br>Good<br>Excellent<br>Excellent<br>Good<br>Good<br>Good  | Good<br>Good<br>Good<br>Good<br>Good   | Good/Fair<br>Fair<br>Poor<br>No<br>No<br>No<br>No                             |
| Marine, Chemical,<br>Food, Petroleum,<br>Paper, Textile,<br>Medical                              | Pulp/Paper<br>Chemical   | Hardware,<br>Fasteners,<br>Cutlery,<br>Machinery Parts,<br>Rifle Barrels,<br>Tools<br>-Seal Screws | Interior<br>Architecture,<br>Automotive Trim<br>—   | Electronics,<br>Marine,<br>Chemical,<br>Petroleum  | Chemical,<br>Nuclear,<br>Aerospace,<br>Marine   | Corrosive<br>Service Good<br>for Machinery<br>Weldable                             | Indoor<br>Mild Atmosphere<br><br>Band/Buckle<br>Preformed Clamps<br>Brack-Its |
| 316 Band/Buckle<br>Clamps  | 317L Band<br>for Paper Mills<br>Special<br>Applications  |  |   | Special  | Special   | Special  |   |

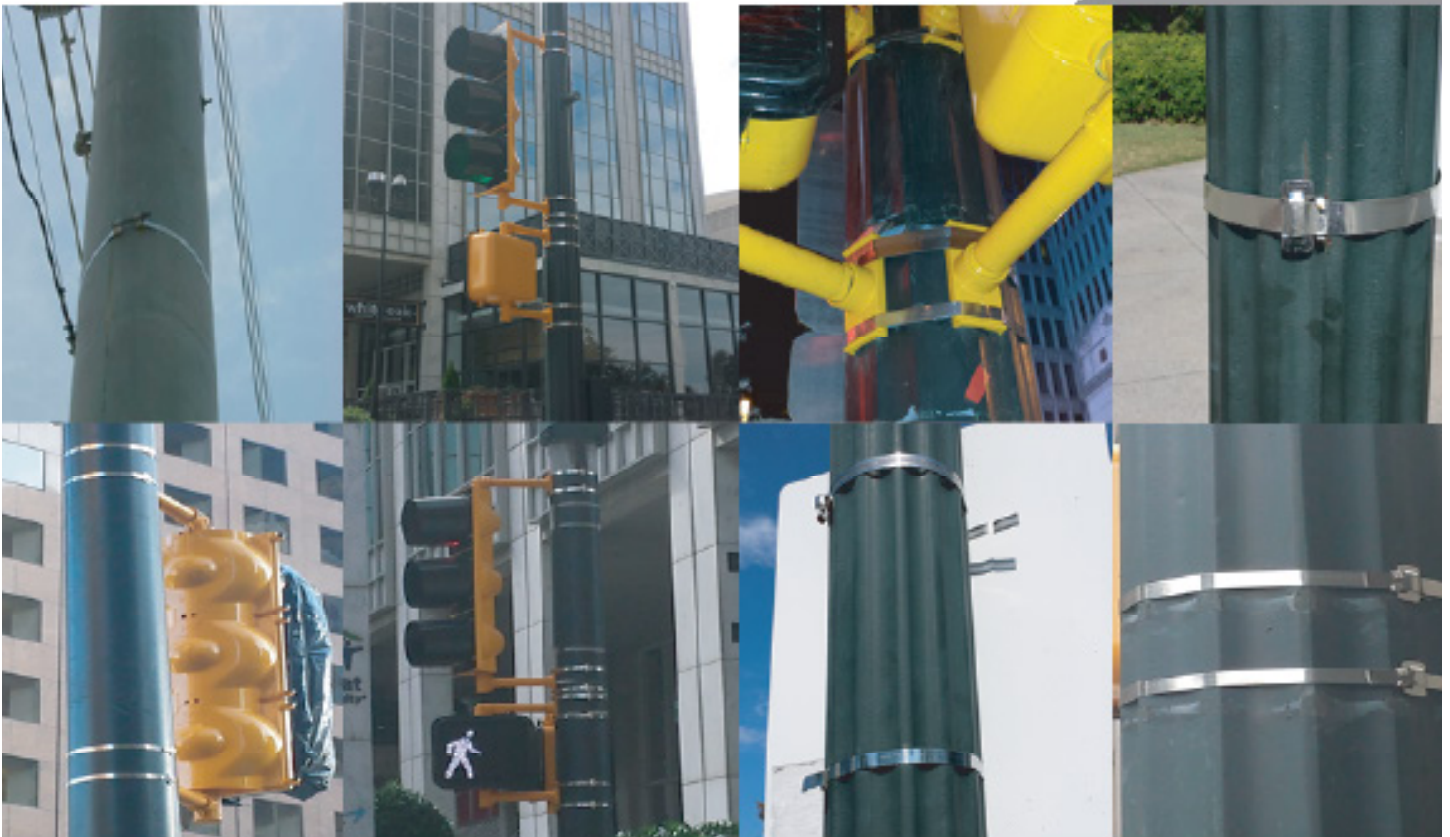
# SPECIFICATION SHEET



## METALS DATA SHEET

| AlSi TYPE NUMBER OR NAME  | 201  | 201L   | 301  | 302  | 304  |
|---|--|--|--|--|--|
| <b>PRINCIPAL ALLOYING ELEMENTS, %</b>                               | C 0.15 Max.<br>Mn 5.50- 7.50<br>Si 1.00 Max.<br>Cr 16.00-18.00<br>Ni 3.50- 5.50<br>N 0.25 Max. | C 0.03 Max.<br>Mn 5.50- 7.50<br>Si 1.00 Max.<br>Cr 16.00-18.00<br>Ni 3.50- 5.50<br>N 0.25 Max. | C 0.15 Max.<br>Mn 2.00 Max.<br>Si 1.00 Max.<br>Cr 16.00-18.00<br>Ni 6.00- 8.00 | C 0.15 Max.<br>Mn 2.00 Max.<br>Si 1.00 Max.<br>Cr 17.00-19.00<br>Ni 8.00-10.00 | C 0.08 Max.<br>Mn 2.00 Max.<br>Si 1.00 Max.<br>Cr 18.00-20.00<br>Ni 8.00-10.50 |
| <b>PHYSICAL PROPERTIES</b>  |  |  |  |  |  |
| Density, Lb./Cu. In.  | 0.28   | 0.28   | 0.29   | 0.29   | 0.29   |
| Mod. of Elasticity in Tension $\times 10^4$ Lb./Sq. In.             | 28.6   | 28.6   | 28.0   | 28.0   | 28.0   |
| Structure   | Austenitic   | Austenitic   | Austenitic   | Austenitic   | Austenitic   |
| Specific Heat, B.t.u./"F./Lb./32-212°F.                             | 0.12   | 0.12   | 0.12   | 0.12   | 0.12   |
| Thermal Conductivity, B.t.u./Sq. Ft./Hr./"F./Ft.                    | 212°F.<br>932°F.<br>9.4<br>12.4  | 9.4<br>12.4  | 9.4<br>12.4  | 9.4<br>12.4  | 9.4<br>12.4  |
| Mean Coefficient of Thermal Expansion Per "F. $\times 10^{-6}$      | 32-212°F.<br>32-600°F.<br>32-1000°F.<br>32-1200°F.<br>8.7<br>9.7<br>10.2<br>—                  | 9.0<br>10.0<br>10.5<br>—   | 9.4<br>9.5<br>10.1<br>—  | 9.6<br>9.9<br>10.2<br>10.4   | 9.6<br>9.9<br>10.2<br>10.4   |
| Melting Range   | 2550-2650°F.   | 2550-2650°F.   | 2550-2590°F.   | 2550-2590°F.   | 2550-2650°F.   |
| <b>ELECTRICAL PROPERTIES</b>  |  |  |  |  |  |
| Magnetic Permeability, Annealed                                     | Non-Magnetic   | Non-Magnetic   | Non-Magnetic   | Non-Magnetic   | Non-Magnetic   |
| Elec. Resistivity, Microhm-cm., 70°F.                               | $\mu = 1.02$<br>69.0   | $\mu = 1.02$<br>69.0   | $\mu = 1.02$<br>72.0   | $\mu = 1.008$<br>72.0  | $\mu = 1.008$<br>70.0  |
| <b>MECHANICAL PROPERTIES</b>  |  |  |  |  |  |
| Rockwell Hardness   | 90-95 R <sub>B</sub>   | 20-30 R <sub>C</sub>   | 75-95 R <sub>B</sub>   | 70-90 R <sub>B</sub>   | 70-90 R <sub>B</sub>   |
| Ultimate, Min. Spec. [PSI]<br>Tensile Strength, Typical [PSI]       | 100,000<br>115,000   | 120,000<br>135,000   | —<br>105,000   | —<br>80,000  | 75,000<br>80,000   |
| Yield Strength, Band- Min. Spec. [PSI]<br>Typical [PSI]             | 45,000<br>60,000   | 85,000<br>90,000   | —<br>55,000  | —<br>45,000  | 30,000<br>45,000   |
| Elongation, Band- Min. Spec. [%]<br>in 2 Inches, Typical [%]        | 40<br>55   | 40<br>45   | —<br>50  | —<br>50  | 30<br>45   |
| Ductility, Annealed-Olsen, Inches                                   | 0.425-0.500  | 0.425-0.500  | 0.425-0.500  | 0.400-0.450  | 0.400-0.450  |
| Creep Strength, Life of 10,000 Hrs. with 1% Elongation, Lb./Sq. In. | At 1000°F.<br>—<br>At 1100°F.<br>—<br>At 1200°F.<br>—<br>At 1300°F.<br>—                       | —<br>—<br>—<br>—   | —<br>—<br>—<br>—   | 17,000<br>12,000<br>7,000<br>4,000   | 17,000<br>12,000<br>7,000<br>4,000   |
| Strength at Elevated Temps., Short Time Tests, Lb./Sq. In.          | 1300°F.<br>23,000<br>1500°F.<br>11,000<br>1700°F.  | 37,500<br>23,000<br>23,000<br>11,000   | 35,500<br>22,500<br>22,500<br>11,000   | 36,000<br>22,000<br>22,000<br>13,500   | 36,000<br>22,000<br>22,000<br>13,500   |
| <b>HEAT TREATMENT</b>   | Non-Hardening  | Non-Hardening  | Non-Hardening  | Non-Hardening  | Non-Hardening  |
| <b>HEAT-RESISTANCE</b>  |  |  |  |  |  |
| Scaling Temperature   | 1550°F.<br>1400°F.   | 1550°F.<br>1400°F.   | 1650°F.<br>1500°F.   | 1650°F.<br>1500°F.   | 1700°F.<br>1550°F.   |
| <b>WELDING PROPERTIES</b>   | Very Good<br>Tough Welds   | Very Good<br>Tough Welds   | Very Good<br>Tough Welds   | Very Good<br>Tough Welds   | Very Good<br>Tough Welds   |
| <b>CORROSION RESISTANCE</b>   |  |  |  |  |  |
| Mild Atmospheric and Fresh Water                                    | Good   | Good   | Good   | Very Good  | Very Good  |
| Industrial Atmosphere   | Good   | Good   | Good   | Very Good  | Very Good  |
| Marine Atmosphere   | Fair   | Fair   | Fair   | Good   | Good   |
| Salt Water  | No   | No   | No   | No   | No   |
| Mild Chemical   | Fair   | Fair   | Fair   | Fair   | Good   |
| Oxidizing Chemical  | Fair   | Fair   | Fair   | Fair   | Good   |
| Reducing Chemical   | No   | No   | No   | No   | No   |

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