

## Conversion Factors

### Stainless Shape Weights

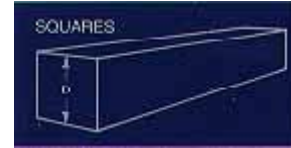
Density factor of .2836 per cubic inch (Plate products may be heavier)



Lbs. per lineal foot =  $2.6729 \times D2$   
Lbs. per lineal inch =  $.22274 \times D2$



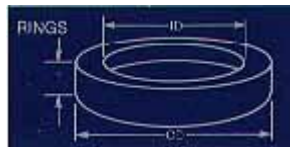
Lbs. per lineal foot =  $3.4032 \times T \times W$   
Lbs. per lineal inch =  $.2836 \times T \times W$



Lbs. per lineal foot =  $3.4032 \times D2$   
Lbs. per lineal inch =  $.2836 \times D2$



Lbs. per lineal foot =  $2.9473 \times D2$   
Lbs. per lineal inch =  $.2456 \times D2$



Wt. of Ring in Lbs. =  
 $.22274 \times T \times (OD2 - ID2)$



Lbs. per lineal foot =  $10.68 \times (OD - W) \times W$   
Lbs. per lineal inch =  $89 \times (OD - W) \times W$

### Weight Conversion Factors

(For estimating purposes only)

To obtain theoretical weights of metals and alloys - Calculate the weight of the appropriate shape from above - Then multiply by the appropriate factor.

|                   |       |                  |       |                   |       |
|-------------------|-------|------------------|-------|-------------------|-------|
| Aluminum          | .364  | Inconel 600      | 1.074 | Nickel 200        | 1.134 |
| Aluminum Alloys   | .356  | Inconel 625      | 1.082 | Nitronic Alloys   | 1.000 |
| Brass             | 1.080 | Inconel 718      | 1.029 | Rene 41           | 1.057 |
| Columbium         | 1.107 | Inconel X-750    | 1.053 | Tantalum          | 2.142 |
| Copper            | 1.148 | Invar            | .97   | Titanium          | .582  |
| Copper Alloys     | 1.120 | Magnesium        | .223  | Titanium Alloys   | .576  |
| Hastelloy "B"     | 1.187 | Molybdenum       | 1.321 | Tool Steels       | 1.000 |
| Hastelloy "C"     | 1.139 | Monel 400        | 1.127 | Tungsten          | 2.464 |
| Hastelloy "X"     | 1.056 | Monel 405        | 1.127 | Tungsten Hi-Speed | 1.120 |
| Haynes 25 (L-605) | 1.172 | Monel 500        | 1.078 | Tungsten-Moly     | 1.040 |
| Haynes "188"      | 1.183 | Multimet (N-155) | 1.056 | Waspalloy         | 1.057 |
| Incoloy 800       | 1.025 | Mumetal          | .317  | Zirconium         | .835  |