Dura-Krome™ Stainless Steel

• Plate • Flats • Squares • Sheets

Dura-Krome Tubing

Dura-Krome Threaded Bar

Machining & Fabrication
Dura-Krome stainless steel alloy is designed to meet the requirements for tough applications. Dura-Krome resists corrosion, delivers strength, and provides machineability in a non-hardenable fatigue resisting alloy compatible with the 300 stainless series (302, 304, 316, and 321).

**Features And Advantages**
- Free machining
- Fatigue resistant
- Non-galling
- Corrosion resistant
- non-magnetic
- High tensile strength

**Typical Analysis**
- Carbon .02/.05
- Silicon .40/1.25
- Chromium 19.00/25.00
- Nickel 25.00/35.00

**Dura-Krome Rounds**
- Available from 1/8” through 8”
- Cold drawn finish
- Centerless ground finish
- Precision ground and polished finish (+.000/.002”)
Dura-Krome™ STAINLESS STEEL

Dura-Krome Plates, Squares, Flats, Sheets

- Available thickness from 1/8” through 2”
- Over one inch special order to your specifications
- Stock sizes or plasma cut to shape

Dura-Krome Tubing

- Welded and seamless available—consult Ameralloy plant for stock sizes

Dura-Krome Threaded Bar

- 1/4” through 2” standard, fine, and 8 pitch
- Class 2 fit

Machining And Fabrication

- Forming, rolling, punching, and perforating
- Specialty forgings and machining to your specifications
Applications

- Acetic acid
- Acetylene
- Alcohol
- Aluminum acetate
- Aluminum sulfate
- Ammonia
- Aniline
- Barium carbonate
- Barium chloride
- Barium sulphate
- Benzene
- Boric acid
- Butyl acetate
- Calcium chloride
- Calcium hydroxide
- Carbonic acid
- Carbon tetrachloride
- Cellulose
- Chlorine gas
- Chromic acid
- Copper acetate
- Copper nitrate
- Creosote
- Ethyl alcohol
- Ethyl chloride
- Ethyl alcohol
- Ferric chloride
- Ferric nitrate
- Ferrous sulfate
- Flourine
- Formaldehyde
- Fuel oil
- Glycerin
- Hops
- Hydrogen peroxide
- Iodine
- Lactic acid
- Magnesium sulfate
- Mercuric chloride
- Methanol
- Naptha
- Nitric acid
- Pieric acid
- Potassium chlorate
- Potassium hydroxide
- Salt brine
- Soap
- Steam
- Sulphur
- Sulphuric acid
- Tannic acid
- Tar
- Trichlorethylene
- Uric acid
- Vinegar
- Water

Mechanical Properties Comparison

<table>
<thead>
<tr>
<th>Property</th>
<th>Dura-Krome</th>
<th>302</th>
<th>304</th>
<th>316</th>
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</thead>
<tbody>
<tr>
<td>Tensile strength psi minimum</td>
<td>115,000</td>
<td>89,000</td>
<td>85,000</td>
<td>90,000</td>
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<tr>
<td>Yield point psi minimum</td>
<td>51,000</td>
<td>39,000</td>
<td>35,000</td>
<td>40,000</td>
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<tr>
<td>Elongation in 2&quot;</td>
<td>50%</td>
<td>55%</td>
<td>55%</td>
<td>50%</td>
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<tr>
<td>Reduction of area</td>
<td>55%</td>
<td>70%</td>
<td>70%</td>
<td>65%</td>
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<tr>
<td>Rockwell C hardness</td>
<td>20</td>
<td>Annealed</td>
<td>Annealed</td>
<td>Annealed</td>
</tr>
</tbody>
</table>

Dura-Krome Shapes And Sizes Available For Immediate Shipment

<table>
<thead>
<tr>
<th>Rounds</th>
<th>Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rounds</td>
<td>Plate</td>
</tr>
</tbody>
</table>

| 1/8    | 3/4          | 1-1/2    | 3       | 5-1/2  | 1/8 x 60 x 120  |
| 3/16   | 13/16        | 1-5/8    | 3-1/4   | 6      | 3/16 x 48 x 120  |
| 1/4    | 7/8          | 1-3/4    | 3-1/2   | 6-1/2  | 3/16 x 72 x 120  |
| 5/16   | 15/16        | 1-7/8    | 3-3/4   | 7      | 1/4 x 48 x 120  |
| 3/8    | 1            | 2        | 3-15/16 | 7-1/2  | 1/4 x 78 x 120  |
| 7/16   | 1-1/8        | 2-3/16   | 4       | 8      | 5/16 x 48 x 120  |
| 1/2    | 1-3/16       | 2-1/4    | 4-1/4   |        | 5/16 x 72 x 120  |
| 9/16   | 1-1/4        | 2-3/8    | 4-1/2   |        | 3/8 x 48 x 120  |
| 5/8    | 1-3/8        | 2-1/2    | 4-3/4   |        | 3/8 x 72 x 120  |
| 11/16  | 1-7/16       | 2-3/4    | 5       |        | 1/2 x 48 x 120  |
| 5/8    | 1-3/8        | 2-1/2    | 4-3/4   |        | 3/8 x 72 x 120  |
| 11/16  | 1-7/16       | 2-3/4    | 5       |        | 1/2 x 48 x 120  |

Lengths: 12'-14'