CHEMICAL COMPOSITION

<table>
<thead>
<tr>
<th></th>
<th>Cu</th>
<th>Fe</th>
<th>Pb</th>
<th>Mn</th>
<th>Ni</th>
<th>Zn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min/Max</td>
<td>1.3 - 1.7</td>
<td>0.05</td>
<td>0.3-0.8</td>
<td>4.8 – 6.2</td>
<td>0-1.0</td>
<td></td>
</tr>
</tbody>
</table>

PHYSICAL PROPERTIES

- Melting Point - Liquidus °F: 2050
- Density lb/cu in. at 68 °F: 0.323
- Specific Gravity: 8.94
- Electrical Conductivity % IACS at 68 °F: 14
- Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68 °F: 37
- Coefficient of Thermal Expansion 68-572 °F (68 – 572 °F): 9.7
- Specific Heat Capacity Btu/ lb/ °F at 68 °F: 0.09
- Modulus of Elasticity in Tension ksi: 17000
- Modulus of Rigidity ksi: 6400

SIZES AVAILABLE:

- HOLLOW RODS: Min Bore Size 20 mm and Max OD 100 mm
- ROUND RODS/BARS: 8mm To 100 mm
- HEX: 10mm To 60mm
- SQUARE: 10mm To 60mm
- FLAT: 10mm Min Thickness and max Width 120mm
- BILLETS: Up to 200 mm
- INGOTS: As per Specification

Excellent hot and cold workability; good forge ability. Fabricated by bending, coining, coppersmith, drawing and upsetting, hot forging and pressing, knurling, roll threading, shearing, spinning, swaging, and stamping.

Good to excellent. Susceptible to galvanic corrosion when coupled with iron, aluminum, magnesium, leads, tin, and zinc. Good resistance to atmospheric, brackish water, sea water, and non-oxidizing acid corrosion, but avoid heating in oxidizing atmospheres or exposing to oxidizing acids, moist halogens, sulfides, ammonia, or solutions with ammonium ions.

TYPICAL USES:

- Marine: Condenser Intake Systems, Salt Water Piping,