DEZINCIFICATION RESISTANT BRASS (DZR BRASS)

**CHEMICAL COMPOSITION**

<table>
<thead>
<tr>
<th></th>
<th>Cu</th>
<th>As</th>
<th>Pb</th>
<th>Zn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min/Max</td>
<td>61.0 - 63.0</td>
<td>0.02-0.15</td>
<td>1.7 – 2.8</td>
<td>Rem</td>
</tr>
</tbody>
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**PHYSICAL PROPERTIES**

- Melting Point - Liquidus °F: 1660
- Melting Point - Solidus °F: 1645
- Density lb/cu in. at 68°F: 8.45
- Specific Gravity: 8.45
- Electrical Conductivity % IACS at 68°F: 26
- Coefficient of Thermal Expansion: 68-572°F $\times 10^{-6}$ per °F (68 – 572°F): 12.4
- Modulus of Elasticity in Tension ksi: 15000

**EQUIVALENT SPECIFICATIONS**

- SPECIFICATIONS: UNS C35330, BS C2 132, Europen CW602N

**SIZES AVAILABLE:**

- HOLLOW RODS: Min Bore Size 20 mm and Max OD 100 mm
- ROUND RODS/BARS: 6mm To 130 mm
- HEX: 5mm To 60mm
- SQUARE: 4mm To 60mm
- FLAT: 5mm Min Thickness and max Width 120mm
- PROFILES / SECTIONS: AS per Customer Drawing
- BILLETS: Up to 200 mm
- INGOTS: AS per Specification

**TYPICAL APPLICATIONS:**

Valves, stopcocks, taps and other plumbing fitting coming in contact with chlorinated water supplies.

Alloy C352 Brass is a copper-zinc-lead alloy with a small addition of arsenic, having a mainly alpha phase structure in the “as used” heat treated condition, with a fine dispersion of lead particles. It has excellent machinability, good cold forming properties, with a high resistance to dezincification.