

**TECHNICAL DATA SHEET**

# Nonferrous alloy type Br

**General notes:**

- » **Brass** (CuZn37)
- » copper-zinc alloy
- » non-magnetizable (100%)
- » good to excellent corrosion resistance; all copper alloys resist corrosion by fresh water and steam
- » excellent cold workability (forming)
- » generally it is utilized when high mechanical properties are not required
- » typical applications include tweezers for handling scratch-sensitive mechanical parts, watch components, magnets

## Composition

Component	Wt. %	Component	Wt. %
Cu	63	Zn	37

## Mechanical properties

State	<b>annealed</b>
Density	<b>8.47 g/cm<sup>3</sup></b>
Hardness, Vickers	<b>170 HV</b>
Tensile strength, ultimate	<b>600 MPa</b>
Tensile strength, yield	<b>262 MPa</b>
Elongation, break	<b>65%</b>
Modulus of elasticity	<b>105 GPa</b>

## Thermal properties

Coef. of lin. therm expansion	<b>20.3 E-6/°C</b>	<b>20°C-300°C</b>
Thermal conductivity	<b>116 W/(m K)</b>	

## Electrical properties

Resistivity	<b>n/a</b>
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