

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	annealed
Density	8.47 g/cm³
Hardness, Vickers	170 HV
Tensile strength, ultimate	600 MPa
Tensile strength, yield	262 MPa
Elongation, break	65%
Modulus of elasticity	105 GPa

Thermal properties

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

Electrical properties

Resistivity	n/a
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