Xometry

Datasheet

Brass 2.0401

(CuZn39Pb3)

Alternative Designations

Standard	EN	ASTM	UNS	JIS	CDA
Designation	EN 12164	C38500	C38500	C3603	385

Details

This material has excellent hot formability and can easily be soldered or brazed. It is suitable for use in the sanitary industry, engine and vehicle construction and swivel parts. It has very good free-cutting.

Key Features

Excellent hot formability • Good free-cutting

Chemical Composition

Element	Cu	Al	Fe	Ni	Pb	Sn	Zn	Others
Percentage	57 -59	0.05	0.3	0.3	2.5 – 3.5	0.3	rest	0.2

Mechanical Properties

Property	Yield strength [MPa]	Ultimate tensile strength [MPa]	Elongation [%]	Hardness
Value	320	360	25	115

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PhysicalProperties

Property	Value
Density [g/cm³]	**8.5**
Module of elasticity [GPa]	**97**
Electrical conductivity [m/Ω · mm²]	**28**
Coefficient of thermal expansion [K-1 · 10-6]	**21.4**
Thermal conductivity [W/m · K]	**121**
Specific heat capacity [J/kg · K]	**377**