

Copper Alloys

CW505L (CZ106) Sheet

Datasheet Updated
05 December 2024

RANGE

Sheet Size	Size Range
2m x 1m	0.45mm - 2.0mm
4' x 2'	24 swg - 18swg

SPECIFICATIONS

Commercial	CZ106
EN	CW505L

An alpha brass alloy often referred to as a cartridge brass, with less than 37% zinc.

CHEMICAL COMPOSITION

EN 1652
CW505L Brass

Element	% Present
Copper (Cu)	69.00 - 71.00
Aluminium (Al)	0.00 - 0.02
Lead (Pb)	0.00 - 0.05
Nickel (Ni)	0.00 - 0.30
Others (Total)	0.00 - 0.10
Tin (Sn)	0.00 - 0.10
Zinc (Zn)	Balance

ALLOY DESIGNATIONS

CZ106/CW505L corresponds to the following designation **but may not be a direct equivalent:**

- CuZn30

SUPPLIED FORMS

- Sheet

APPLICATIONS

- Heat exchanger tubes
- Chains & fastenings
- Fire extinguishers
- Chemical processing components
- Deep drawn or spun components
- General industrial pressings

CHARACTERISTICS

- Superb cold forming properties
- Excellent deep drawing characteristics
- Good corrosion resistance
- Optimum combination of strength and ductility for alpha brasses
- Good weldability

MECHANICAL PROPERTIES

EN 1652
Sheet 0.2mm to 5.0mm

Property	Value
Tensile Strength	270-480 MPa
Elongation A50 mm	50-9 %
Hardness Vickers	55 to 155 HV
Proof Stress	90-430 MPa

DISCLAIMER

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