Metal Sheets

Features

- Exceptional Cold Formability: Specifically engineered for severe bending, deep drawing, and riveting without cracking.
- High Purity Alpha Alloy: Composed of roughly 63% copper and 37% zinc, making it a single-phase "alpha" brass that is highly ductile.
- Versatile Fabrication: Rated "excellent" for cold working and "fair" for hot working, allowing for a wide range of shaping techniques.
- Offers "good to excellent" resistance in most natural atmospheres and mildly corrosive environments.
- Superior Joining Characteristics: Soldering and brazing are both rated as "excellent," making it easy to join components securely.
- Features a natural golden lustre, ideal for decorative hardware

Product Description

RS PRO CZ108 Brass Sheet, L:500MM X W:300MM X T:0.3/4IN

RS Stock No: 858806



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Metal Sheets

RS PRO CZ108 Brass Sheet

The RS PRO CZ108 Brass Sheet (also known as CW508L) is a high-grade alpha alloy metal sheet designed for general-purpose applications requiring exceptional cold-working capabilities and corrosion resistance. It is frequently used in industrial, scientific, and decorative settings due to its high malleability and attractive yellow finish.

Key Features:

- *Good Strength-to-Weight Ratio: Maintains a high tensile strength (300–550 MPa) while remaining ductile enough for intricate forming.*
- *Excellent Surface Quality: Typically supplied with a smooth mill finish that is highly receptive to chemical etching, laser engraving, and electroplating.*
- *Thermal & Electrical Conductivity: Suitable for functional engineering components like heat exchangers, radiators, and electrical contacts.*
- *Non-Magnetic (Diamagnetic): Its high purity and copper-zinc base make it ideal for scientific instruments and sensitive electronic housings.*

Applications:

- *Deep Drawing & Cold Forming: Because CZ108 is highly ductile, it is the go-to material for creating complex shapes like lamp-caps, eyelets, rivets, and cartridge cases that require severe bending without cracking.*
- *Heat Exchangers & Radiators: Its excellent thermal conductivity and corrosion resistance make it a standard choice for industrial heat exchanger tubing, radiator tanks, and air conditioning components.*
- *Scientific & Electrical Instruments: Used extensively for instrument plates, switchgear components, and laboratory equipment where non-magnetic properties and reliable electrical conductivity are required.*
- *Decorative Architecture & Signage: Often selected for nameplates, kick plates, shop fittings, and interior trim because it takes a high polish and can be easily chemically etched or laser engraved.*

General Specifications

Material	Brass
Form	Metal Sheet
Grade	CW508L/CZ108
Length	500MM
Width	300MM
Thickness	0.3/4IN

Mechanical Specifications

Metal Sheets

Tensile Strength	300-550MPa
Proof Stress	110 - 500 MPa
Hardness Vickers (HV)	55 to 180 HV
Elongation A50 mm:	3 - 38 %
Density	8.44 g/cm^3
Melting Point	916 - 920°C
Thermal Expansion (20-200°C)	20.5 x 10^{-6} /K
Modulus of Elasticity	103.4 GPa
Thermal Conductivity	116 W/m.K

Similar Products

RS Code	Form	Length x Width	Thickness
8411903	Brass Sheet	600MM X 300MM	0.9MM
8732487	Brass Sheet	600MM X 300MM	1.2MM
858800	Brass Sheet	500MM X 300MM	1MM
858801	Brass Sheet	500MM X 300MM	3MM
858802	Brass Sheet	500MM X 300MM	5MM
858803	Brass Sheet	500MM X 300MM	1.5MM
858804	Brass Sheet	500MM X 300MM	0.1/4IN
858805	Brass Sheet	500MM X 300MM	0.3/8IN
858807	Brass Sheet	1219MM X 610MM	1MM
858808	Brass Sheet	1219MM X 610MM	3MM
858811	Brass Sheet	1219MM X 610MM	6.5MM