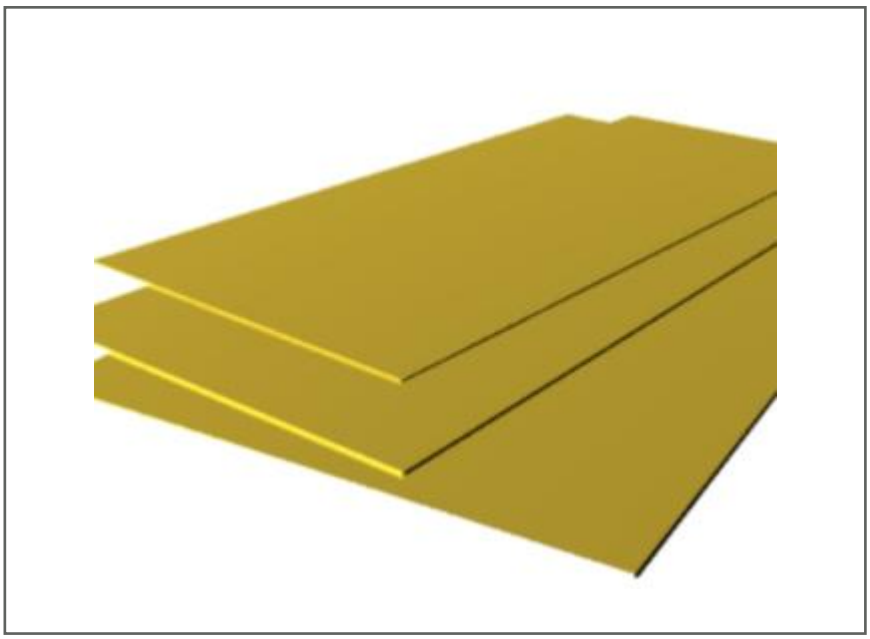
Metal Sheets

Features

- Half-Hard Temper: Provides moderate mechanical strength and rigidity while remaining pliable enough for severe bending.
- Exceptional Cold Formability: Highly suited for complex deep drawing, spinning, and pressing.
- Severe Bending Capability: Specifically recommended for applications requiring sharp or multi-directional bends without cracking.
- High Corrosion resistance: Excellent performance in most natural environments; it naturally develops a protective patina.
- Brilliant Aesthetic Appeal: Known for its distinctive bright yellow-gold "yellow brass" appearance, popular for decorative uses.
- Excellent Joining Properties

RS PRO CZ108 Half Hard Brass Sheet, L:500MM X W:300MM X T:0.4MM

RS Stock: 934567



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

Product Description

RS PRO CZ108 (CW508L) Brass Sheet

The RS PRO CZ108 Brass Sheet is a high-purity brass designed for high-performance fabrication and decorative applications. Supplied in a half-hard temper, it provides the ideal compromise between structural rigidity and the ductility required for severe cold working and deep drawing.

Its composition of 63% copper and 37% zinc ensures exceptional corrosion resistance and a brilliant gold-like finish, making it a staple for both industrial engineering and architectural design.

Key Features:

- *Weldability: Good suitability for oxyacetylene welding and fair performance with gas-shielded arc methods.*
- *Dimensional Stability: The half-hard state ensures it maintains its shape better than soft-annealed sheets during handling*
- *Cold Heading Attributes: Very good properties for manufacturing fasteners like pins, rivets, and screws.*
- *Electrical & Thermal Conductivity: Features a thermal conductivity of ~116 W/m.K and electrical conductivity of ~26% IACS.*
- *High Purity: Low level of impurities ensures consistent performance during industrial fabrication.*

Applications:

- *Industrial & Engineering*
- *Architecture & Interior Design*
- *Hardware & Fasteners*
- *Manufacturing & Precision*
- *Specialist & Electrical*

Metal Sheets

General Specifications

Material	Brass
Form	Sheet
Grade	CZ108 / CW508L (Alpha Brass)
Temper	Half – Hard
Length	500MM
Width	300MM
Thickness	0.4MM

Mechanical Specifications

Tensile Strength	300 – 550 MPa
Proof Stress	110 – 500 MPa
Hardness Vickers (HV)	55 – 180 HV
Elongation A50 mm	38 – 3%
Density	8.44 g/cm³
Melting Point	916°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	Thickness	Width
934568	BRASS SHEET	500MM	0.7MM	300MM
934569	BRASS SHEET	500MM	0.9MM	300MM
934570	BRASS SHEET	500MM	1.2MM	300MM
934572	BRASS SHEET	500MM	2MM	300MM
934573	BRASS SHEET	500MM	4MM	300MM
934574	BRASS SHEET	500MM	0.5MM	300MM
934575	BRASS SHEET	500MM	0.8MM	300MM