

# Brass C27400 (Yellow Brass 63%)

## Overview

C27400 Yellow Brass has a copper content of approximately 62-63% and zinc content of about 38%. It is the major brass alloy for cold forming processes. Known by the EN chemical designation CuZn37, it offers an excellent balance of strength, ductility, and corrosion resistance. The alloy is valued for its versatility in plumbing, electrical, and decorative applications.

## Chemical Composition

Element	Content (%)
Copper (Cu)	61.0 - 64.0
Zinc (Zn)	Balance (~38)
Lead (Pb)	≤ 0.10
Iron (Fe)	≤ 0.05

## Key Properties

- Excellent ductility for cold forming
- Moderate strength and corrosion resistance
- Golden-yellow appearance
- Good machinability
- Primary alloy for cold forming processes

## Applications

- Plumbing fittings: valves, connectors, faucets, pipe fittings
- Electrical connectors
- Ammunition casings
- Decorative hardware
- Architectural finishes: window frames, door handles, railings

## International Equivalents

- UNS: C27400
- EN: CW508L
- ISO: CuZn37
- Common name: 63-37 Yellow Brass