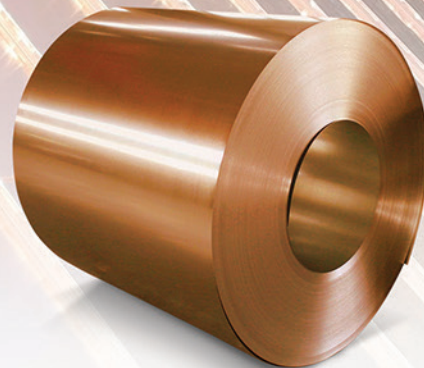




COPPER

ASTM B370 – Copper Sheet and Strip for Building Construction

Quality Metals' premium-grade architectural copper is sourced from top U.S. mills and engineered for exceptional performance, durability, and timeless visual appeal. Manufactured in compliance with **ASTM B370** standards, it is available in multiple tempers and finishes to suit both traditional and contemporary applications. Ideal for roofing, flashings, gutters, and architectural cladding, this copper combines long-lasting protection with unmatched aesthetic value, strength, making it ideal for general-purpose use where moderate forming and structural integrity are required.

General Specifications

- **Type:** Electrolytic copper, minimum 99.9% purity
- **Format:** Sheet and coil (cold rolled or soft temper)
- **Finish Options:** Natural copper (patinas over time), pre-oxidized bronze (ContinentalBronze™), textured, or tin-zinc alloy (FreedomGray™)

Typical Applications

- **Roofing systems:** standing seam, batten seam, flat seam
- **Flashings, gutters, downspouts, wall cladding, window trim, skylights, solar panels, awnings, etc.**
- **Recommended Use:** High-end architectural projects, LEED applications, and environments with severe weather exposure

Physical Properties

Atomic Weight: 63.54

Specific Gravity: 8.89 – 8.94

Density: 0.0322 lb/in³

Coefficient of Thermal Expansion: 0.0000098 in/in/°F

Standard Weights and Thicknesses

WEIGHT (OZ/FT ²)	NOMINAL THICKNESS (IN)	MINIMUM THICKNESS (IN)	WEIGHT (LB/FT ²)
12 OZ	0.0162	–	0.75
16 OZ	0.0216	0.0204	1.00
20 OZ	0.0270	0.0258	1.25
24 OZ	0.0323	0.0308	1.50
32 OZ	0.0431	0.0411	2.00

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Mechanical Properties by Temper

PROPERTY	SOFT (O60)	COLD ROLLED - H00	COLD ROLLED - H01	COLD ROLLED - H02
TENSILE STRENGTH (KSI)	30-38	32-40	34-42	37-46
YIELD STRENGTH (KSI)	-	20	28	30
ELONGATION (%)	45%	30%	25%	10%
ROCKWELL F SCALE	65	54-82	60-84	77-89

Special Considerations

- **Galvanic Compatibility:** Avoid contact with aluminum and galvanized steel in the presence of moisture.
Compatible with stainless steel, lead, and tin.
- **Storage:** Keep in a dry, enclosed area; avoid moisture and direct contact with the ground.
- **Sustainability:** 100% recyclable, maintenance-free, non-combustible, and LEED eligible.

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