

C70600 Copper Nickel Size

GNEE's main copper products include copper tubes, copper rods, copper plates, copper wires, copper strips, etc.

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C70600 Copper-Nickel (90/10 CuNi) - Standard Size & Product Scope

C70600 tube and pipe are manufactured to different ASTM standards based on their intended application. The following table integrates the specifications for both general piping and heat exchanger uses.

Table 1: C70600 Product Standards & Common Size Ranges

Product Standard	Scope & Application	Common Sizes (Outer Diameter)	Common Wall Thickness	Common Lengths
ASTM B466 / B466M	Seamless Copper-Nickel Pipe and Tube for general plumbing, piping, and pressure applications.	1/2" (12.7 mm) to 12" (323.8 mm)	• Expressed as Schedule (e.g., Sch. 40, Sch. 80) • Or by BWG (e.g., 12, 14, 16) • Or directly in inches/mm.	Random double lengths (~12m), or specific cut lengths.

Product Standard	Scope & Application	Common Sizes (Outer Diameter)	Common Wall Thickness	Common Lengths
ASTM B111 / B111M	Seamless Condenser and Heat Exchanger Tubes. The key standard for marine, power, and desalination plant condensers.	1/2" (12.7 mm) to 2" (50.8 mm) is most common, with larger sizes available.	- Primarily specified by BWG - Common range: BWG 10 to 22 - Tighter tolerances and specific temper conditions.	Straight lengths: 20 ft (6.1 m) and 24 ft (7.3 m) are industry standard.

Detailed Size Reference Tables

Table 2: Common Pipe Sizes (ASTM B466)

Nominal Pipe Size (NPS)	Outer Diameter (OD)	Common Wall Thickness (Schedule)
1/2	0.840" (21.34 mm)	Schedule 40 (0.109") / Schedule 80 (0.147")
3/4	1.050" (26.67 mm)	Schedule 40 (0.113") / Schedule 80 (0.154")
1	1.315" (33.40 mm)	Schedule 40 (0.133") / Schedule 80 (0.179")
2	2.375" (60.33 mm)	Schedule 40 (0.154") / Schedule 80 (0.218")
4	4.500" (114.30 mm)	Schedule 40 (0.237") / Schedule 80 (0.337")
8	8.625" (219.08 mm)	Schedule 40 (0.322") / Schedule 80 (0.500")

Table 3: Common Condenser Tube Sizes (ASTM B111/B111M)

Outer Diameter	Wall Thickness (BWG)	Wall Thickness (mm)	Typical Application
5/8" (15.88 mm)	18 BWG	1.24 mm	General Service Condensers
3/4" (19.05 mm)	16 BWG	1.65 mm	Standard for many power plants
7/8" (22.23 mm)	16 BWG	1.65 mm	Marine Condensers
1" (25.40 mm)	14 BWG	2.11 mm	Heavy-duty service, desalination
1-1/4" (31.75 mm)	12 BWG	2.77 mm	High-pressure feed heaters

Summary

Material: C70600 (UNS C70600), commonly known as 90/10 CuNi.

Key Standards:

ASTM B466 for general piping systems.

ASTM B111/B111M for heat exchanger and condenser tubes (with specific requirements for straightness, temper, and pressure testing).

Important Note: While these tables show common sizes, we can typically supply a wider range of diameters and custom wall thicknesses. For critical applications, the specific standard (B111 or B466) and its associated mechanical and testing requirements must be explicitly stated in the order.

About Us

Plant And Equipment

We rely on a full-process production line of melting, extrusion, drawing, heat treatment and finishing. Our core equipment includes medium-frequency induction furnaces, extruders, cold drawing machines and annealing furnaces, and are equipped with intelligent detection systems to ensure that the copper we produce is of first-class quality and stable performance.



Packaging And Shipping

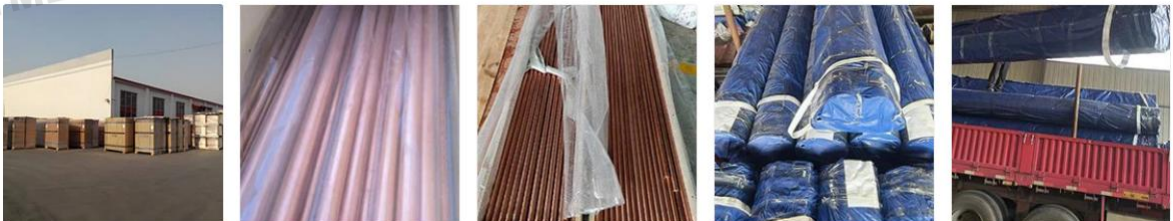
To ensure our products arrive in perfect condition, we use robust packaging:

Protective End Caps: Prevent damage to tube ends.

Waterproof Wrapping: Protects against moisture and corrosion during transit.

Secured Bundling: Tubes are bundled and strapped onto wooden crates or pallets.

Clear Labeling: Each bundle is clearly labeled with material grade, heat number, and dimensions.



Founded in 2008, GNEE has many years of experience in copper product export.

Headquartered in Henan Province, China, adjacent to the Beijing-Hong Kong-Macao

Expressway, the company has over 200 dedicated employees, registered capital of

RMB 10 million, and covers an area of over 350,000 square meters. GNEE is

SGS-certified.

We provide high-quality copper products, excellent service, and highly competitive pricing. We specialize in the production and manufacturing of copper tubes, rods, sheets, coils, and wire.

Our products are exported to over 160 countries worldwide and are widely used in key sectors such as large-scale pipeline construction, petrochemicals, shipbuilding, the automotive industry, and large power plants.

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