



COPPER INDUSTRIES COMPANY

The Largest Manufacturer of
**Seamless Copper &
Copper Alloy Tubes**
in The Middle East
According to the
International Standards



COPPER-NICKEL TUBES

Due to brilliant resistance to corrosion, erosion and biofouling, copper-nickel tubes are widely being used in many industries such as power stations, shipping, chemical and petrochemical, desalination etc. QAEM copper industries produces Copper-Nickel tubes according to the international standards such as ASTM, EN and more. Dimensions are in acc. to the valid national and international specifications and are usually supplied in various dimensions as per customer request. These products are usually packed with wrapped plastic or in a wooden/metal box.

ADVANTAGES

- High ductility and toughness
- Excellent resistance to erosion and corrosion in seawater
- Inherent resistance to biofouling
- Excellent fabrication and welding properties
- Retention of mechanical properties down to cryogenic temperatures
- Good resistance to stress corrosion & cavitation erosion
- Proper thermal stability (up to approx. 300 °C)
- Appropriate cold-workability
- Suitable welding and soldering properties

COPPER-NICKEL TUBE STANDARDS

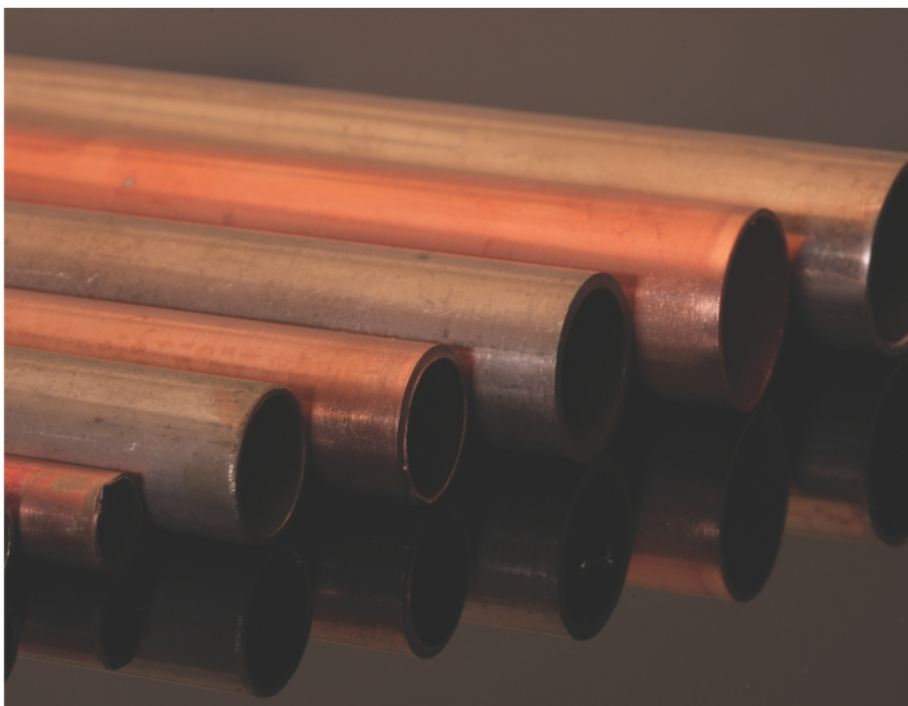
- ASTM: B111, B466
- EN: 12449
- DIN: 1755
- JIS: H3300
- MIL-T: 16420K
- BS: 2871

Important mechanical & physical properties of 90-10 and 70-30 copper nickels

PROPERTY	90/10	70/30
Thermal conductivity (W/mK)	50	29
Tensile Strength (N/mm ²)	320	420
Elongation %	40	42

Material Designation

Copper Nickel Alloy (90/10)	Copper Nickel Alloy (70/30)	Designation System
C70600	C71500	UNS



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