



**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 <sup>2</sup> )	320	420
Elongation %	40	42

## Material Designation

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



### Head Office

No. 33, Sureh Alley, Amadegah Ave., Isfahan, IRAN  
Postal Code: 81449-15814  
Tel: +98 313222453  
Tel: +98 313222944  
Fax: +98 3132220955

### Plant

Mahyaran Industrial Town, Zone 4, by Isfahan-Tehran Highway, Isfahan, IRAN  
Tel: +98 3145642001 (10 Lines)  
Fax: +98 3145642020  
Email: info@qaemcopper.com

### Tehran Office

No.23, Malekian Alley, Northern Iranshahr Ave., Tehran, IRAN  
Postal Code: 15846-68413  
Tel: +98 2188318506  
Tel: +98 2188318507  
Fax: +98 2188318519

