

CuNi 70/30

CuNi 70/30 (UNS C71500) is a wrought alloy with 70% copper and 30% nickel. It shows moderate strength and good resistance to all forms of corrosive attack in fresh water and sea water, including general attack, pitting and stress corrosion, and surface fouling from marine organisms.

Chemical Composition, %

element	Cu	Ni	Fe	Mn	Zn	Pb
min.	bal.	29.0	0.4			
max.		33.0	1.0	1.0	1.0	0.05

Chemical Composition according to ASTM. Some compositional limits of other specifications may vary slightly.

Designation and standards

National Standards	Material designation	Chemical composition	Forgings	Rod and bar	Plate and sheet	Strip	Seamless tube
ASTM ASME	UNS C71500		B283 SB283	B151 SB151 B124 SB124 B122 SB122	B122 SB122 B171 SB171	B122 SB122	B359 SB359 B466 Sb466
DIN	2.0882 CuNi30Mn1Fe	DIN 17664		DIN 17672-1	DIN 17670-1 DIN 17675-1	DIN 17670-1	DIN 17671-1 DIN 17679 DIN 1785
GB/T	BFe30-0.7 CW354H B30	GB/T 5231	GB/T 20078				GB/T 8890

Density 8.94g/cm³

Corrosion resistance

- excellent general corrosion resistance to seawater and other chloride solutions
- more resistance to impingement attack caused by high velocities than other copper alloys
- good resistance to fouling by marine organisms

Applications

Typical applications are:

- condenser and saltwater piping for surface vessels and submarines
- feed water heaters and evaporators in power stations in the high temperature up to approx. 370°C

You could send email to sales@huishih.com for more information.

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