HUISHIH FORGING ___

Monel 400

Monel 400 is a solid-solution nickel-copper alloy with excellent corrosion resistance to a wide range of media. It is characterized by:

- corrosion resistance in a wide range of marine and chemical environments
- freedom from chloride induced stress-corrosion cracking
- good mechanical properties from sub-zero temperatures up to approx. 550°C
- approved for pressure vessels with wall temperatures from -10 to 425°C according to ASME
- good workablility and weldability

Chemical Composition, %

element	Cu	Ni	Fe	С	Mn	Si	S
min.	28.0	63.0					
max.	34.0		2.5	0.30	2.0	0.50	0.024

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

Designation and standards

National	Material	Chemical	Forgings	Rod and	Plate and	Strip	Wire	Seamless
Standards	designation	composition		bar	sheet			tube
ASTM								B163
ASME	ME UNS N04400 AE		B564 SB564	B164	B127	B127		SB163
				SB164	SB127	SB127	AMS4370	B165
		MR 0175		AMS4675	AMS4544	AMS4544		SB165
NACE								AMS4754
DIN	2.4360	DIN 17743	DIN 17754	DIN 17752	DIN 17750	DIN 17750	DIN 17753	DIN 17751
	NiCu30Fe			UIN 17752	UII 17750	17750 אונט	ככייד אווס	1//51

Density 8.80g/cm³

Corrosion resistance

- outstanding resistance to neutral and alkaline salt solutions
- good resistance to fluorine, hydrogen fluoride or their derivatives under reducing conditions
- excellent resistance to flowing seawater
- good resistance to stress corrosion cracking and pitting in most industrial water
- excellent resistance to hydrofluoric acid in all concentrations up to the boiling point

Applications

Typical applications are:

- feed-water and steam generator tubing in power plants
- brine heaters and evaporator bodies in seawater desalination plants
- sulphuric and hydrofluoric acid alkylation plants
- industrial heat exchangers
- propeller and pump shafts for seawater service
- pumps and valves used in the manufacture of chlorinated hydrocarbons
- valves and heat exchangers exposed to oxygen at higher temperatures, pressure and concentration of

oxygen to avoid combustion and ignition through oxygen

sour gas environment

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

Copyright HUISHIH Alloy Corporation.

The data contained in this publication is for informational purposes only and may be revised at any time without prior notice.