

## MONEL ALLOY 400

# NICKEL ALLOY

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

MONEL ALLOY 400 is A nickel- copper alloy with high strength and excellent corrosion resistance in a range of media including sea water, hydrofluoric acid, sulfuric acid, and alkalis. Used for marine engineering, chemical and hydrocarbon processing equipment, valves, pumps, shafts, fittings, fasteners, and heat exchangers

### Chemical Properties

C	Mn	S	Si	Cr	Fe	Ni
0.30 Max	2.00 Max	0.020 Max	0.50 Max	63.0-70.0	2.50 Max	BALANCE

### Mechanical Properties

Yield strength	Tensile strength	Elongation	Hardness
Min 0.2% Mpa	Min Mpa	Min %	HRB
275	550	20	75-103

### Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal			Thermal Conductivity		Specific Heat	Melting Point
(Kg/m <sup>3</sup> )	(Gpa)	Expansion(µm/m/°C)			(W/m.K)		0-100°C	F°
8.8	179	7.7	8.6	9.1	12.6	22	427	2370-2460

### Heat Treatment

Solution annealed

### Equivalent Designation

UNS N04400  
En Name NiCu30Fe  
W.Nr. 2.4360/2.4366  
BS NA13  
AFNOR NU30

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