



ZHEHENG STEEL

Wenzhou Zheheng Steel Industry Co.,Ltd  
stainless-steelseamlesspipe.com



## ASTM B366 UNS N04400 Monel 400 Fittings 45° 90° SS Elbow With Multiple Fields

Our Product Introduction

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### Basic Information

- Place of Origin: Wenzhou, China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: Elbow
- Minimum Order Quantity: MOQ500kg
- Packaging Details: In wooded cases or pallets, or as for clients requirement
- Delivery Time: 7-15 working days after receiving payment
- Payment Terms: L/C, D/P, T/T, Western Union
- Supply Ability: 1000+



### Product Specification

- Size: Seamless Fittings: 1/2" – 10" Welded Fittings: 1/2" – 48"
- WT: SCH5-XXS
- Type: Seamless/welded
- End: Beveled End, Treaded And Plain End
- Price Term: FOB/EXW/CIF
- Bending Radius: R=1D, 2D, 3D, 5D, 6D, 8D, 10D Or Custom
- Manufacturing Process: Press, Forge, Push, Cast, Etc.
- Highlight: **Monel 400 Fittings, UNS N04400 Fittings, ASTM B366 90deg SS Elbow**



## Product Description

### Overview

Monel 400 Pipe Fittings are one such fitting that is made up of nickel copper alloy. Monel Pipe Fittings are able to resist steam and seawater even at elevated temperatures. They also resist salts and caustic solutions. In freshwater Monel, Fittings are also said to be resistant to stress corrosion cracking. Heat and high temperature do not affect these fittings. Monel 400 Fittings also display excellent mechanical properties even at zero temperature.

It has high strength over a wide temperature range up to 1000 F. It is regarded as being a ductile Nickel-Copper alloy with resistance to a wide variety of corrosive conditions. This alloy is most frequently applied in a range of environments going from mildly oxidizing through neutral and to moderately reducing conditions. Additional application area of this material is in marine environments and other non-oxidizing chloride solutions. Like with commercially pure Nickel, Monel 400 is low in strength in the annealed condition, for this reason a variety of tempers are used to achieve higher strength levels. Monel 400 is one of the few alloys that maintains its strength in sub-zero or cryogenic temperatures, so it is often used in those applications.

### Application

Power Generation  
Off-Shore Oil Drilling Companies  
Gas Processing  
Petrochemicals  
Pharmaceuticals  
Specialty Chemicals  
Chemical Equipment  
Pharmaceutical Equipment  
Heat Exchangers  
Sea Water Equipment  
Pulp and Paper Industry  
Condensers

### Equivalent Material

Standard	UNS	JIS	BS	GOST	AFNO R	EN
Monel 400	N04400	NW 4400	NA 13	MHЖМц 28-2,5-1,5	NU-30M	Nicu30 Fe

### Chemical Properties

Grade	C	Mn	Silicon	Sulphur	Copper	Iron	Nickel
N04400	0.3	2	0.5	0.024	28.00-34.00	2.5	63

### Mechanical Characteristics

#### Room

Yield Strength		Ultimate Tensile Strength		Elongation percent in 2"	Elastic Modules (E)	
psi	(Mpa)	psi	(MPa)	(51 mm)	psi	(MPa)
35,000	240	75,000	520	45	26 x 10 <sup>6</sup>	180

#### Hot Rolled

Yield Strength		Ultimate Tensile Strength		Elongation percent in 2"	Elastic Modules (E)	
psi	(Mpa)	psi	(MPa)	(51 mm)	psi	(MPa)
45,000	310	80,000	550	30	26 x 10 <sup>6</sup>	180

### Heat Treated Properties

Condition of Supply	Heat Treatment (After Forming)				
Annealed/Spring Temper	Stress relieve at 300-320°C (570-610°F) for 1 hour and air cool.				
Condition	Approx Tensile Strength		Approx Service Temp.		
Annealed	400 - 600 N/mm <sup>2</sup>	58 - 87 ksi	-200 to +230°C	-330 to +445°F	
Spring Temper	850 - 1050 N/mm <sup>2</sup>	123 - 152 ksi	-200 to +230°C	-330 to +445°F	

### Package



## Shipping



1. Packing type: Carton and wooden case, also be packaged according to customer requirements.
2. Modes of transportation: by sea, by air or land transportation, of course, a small amount can also be by Express.



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