



Monel 400 - UNS N04400

Henan Sheng He Pipe Industry Co., Ltd., have an experience spanning for over ten years, producing and supplying best-in-class products, minimize cost by getting manufacturing processes under one roof and delivering consignments on a daily basis only because of a diligent and dedicated team. We are manufacturers, suppliers and exporters of Monel 400 material.

Common Trade Names: Monel 400, Nickelvac 400, Nicorros 400

Monel 400 is a nickel-copper alloy that is hardened by cold working only. Monel 400 has low corrosion rate in flowing seawater, therefore it is widely used in marine applications. Monel 400 also has excellent resistance to stress corrosion cracking in most freshwaters. Monel 400 can be used in temperatures up to 1000 ° F. The alloy has great mechanical properties at subzero temperatures.

Monel 400 Available Formats

Henan Sheng He Pipe Industry offers Monel 400 in a variety of forms, including:

- Pipe & Welded pipe
- Pipe fittings
- Seamless tube & Welded tube
- Flanges
- Bar
- Sheet
- Wire
- Plate
- forgings
- Weld Wire

Monel 400 sheet is available in thicknesses ranging from .018 to .140". Monel 400 strip in coil from is available in lighter gauges up 24" wide. Monel 400 plate is available up 3" thick.

Monel 400 bar is available in wrought bar up to 11" diameter and larger sizes and shapes may be forged to order.

Monel 400 seamless pipe is available up to 8" NB. Larger sizes are available in welded construction (100% X-ray) and can also be fabricated to order. Monel



400 tubing is available up 3". Monel 400 redrawn tubes and tubing with tight tolerances can be supplied in almost any size no matter how small the size or quantity.

Butt-weld and forged fittings are available or can be manufactured with short lead times.

Available Monel 400 forms are seamless pipe, welded pipe, seamless tube, welded tube, bar, wire, sheet, plate, forgings, pipe fittings and flanges.

ASTM Specifications

ASTM (American Society for Testing and Materials) for various products made out of Monel 400 are as follow

Pipe Seamle ss	Pipe Welde d	Tube Seamle ss	Tube Welde d	Sheet/Pla te	Bar	Forgin g	Fittin g	Wir e
B165	B725	B163		B127	B16 4	B564	B366	–

Chemical Composition, %

C	Mn	S	Si	Ni	Cu	Fe
.30 max	2.00 max	.024 max	.50 max	63.0 min	28.0-34.0	2.50 max



Mechanical Properties - Typical room temperature Tensile

Properties of Annealed Material

Product Form	Condition	Tensile (ksi)	.2% Yield (ksi)	Elongation (%)	Hardness (HRB)
Rod & Bar	Annealed	75-90	25-50	60-35	60-80
Rod & Bar	Cold-Drawn Stress Relieved	84-120	55-100	40-22	85-20 HRC
Plate	Annealed	70-85	28-50	50-35	60-76
Sheet	Annealed	70-85	30-45	45-35	65-80
Tube & Pipe Seamless	Annealed	70-85	25-45	50-35	75 max *