

Monel 400 bolts are best known for their ability to defy seawater corrosion and most often used in saltwater marine applications. One of the most outstanding attributes of Monel 400 fasteners is that they provide excellent protection from hydrofluoric acid (HF) – far exceeding all other nickel alloys. Monel 400 is resistant to all concentrations of HF up to the boiling point. In addition, Monel retains its mechanical properties over a broad temperature range from cryogenic to 1000°F.

Properties

Ultimate Tensile Strength	83 ksi
Yield Strength at 0.2%	32 ksi
Elongation %	45
Usable Temperature Limit	1100°F / 593°C

Chemistry & Specifications

Monel 400	Ni+Co	Cu	Fe	Mn	Si	C	S
Min %	63	28.0	-	-	-	-	-
Max %	-	34.00	2.50	2.00	0.50	0.30	0.024

SPECIFICATIONS: BS3075NA13 (Wire), BS3076NA13 (Bar), ASTM B 164 (Rod, Bar, and Wire), ASTM B 564 (Forgings), ASME SB 164 (Rod, Bar, and Wire), ASME SB 564 (Forgings), AECMA PrEN 2305 (Wire for Rivets), SAE AMS 4675 (Bars and Forgings), SAE AMS 4730 (Wire), SAE AMS 4731 (Wire and Ribbon), DIN 17752 (Rod and Bar), DIN 17753 (Wire), DIN 17754 (Forgings), VdTÜV 263 (Sheet, Plate, Bar, and Tubing), QQ-N-281 (Plate, Sheet, Strip, Bar, Rod, Wire, and Forgings), Werkstoff 2.4360

Key Benefits

- Excellent resistance to saltwater corrosion – even rapidly moving seawater
- Unparalleled resistance to hydrofluoric acid (HF)
- Usable at both at both extreme high and subzero temperatures
- Moderate resistance to reducing chemicals

Material Data