TECHNICAL DATA
Monel K500

Monel K500 fasteners offer a unique combination of age-hardened high strength and excellent resistance to seawater corrosion. Alloy K500 has almost 3 times the yield strength (110ksi vs 45ksi) and double the tensile strength (160ksi vs 83ksi) compared to Monel 400 for extreme strength *and* corrosion resistance. Usable to 1100˚F, K500 also has excellent low temperature capabilities, retaining strength and toughness at subzero temps.

Properties

Ultimate Tensile Strength	160 ksi
Yield Strength at 0.2%	110 ksi
Elongation %	45
Usable Temperature Limit	1100˚F / 593˚C

Key Benefits

- Unique combination of extreme high strength and saltwater resistance.
- Resistant to pure and saltwater, non-oxidizing mineral acids, salts, alkalis, and sour gas
- Retains strength across wide temperature range: cryogenic to 1100˚F
- Virtually non-magnetic and spark resistance even down to -200°F.

Chemistry & Specifications

Monel K500	Ni+Co	Cu	Fe	Mn	Si	C	S	Al	Ti
Min %	63	27.0	-	-	-	-	-	2.30	0.35
Max %	-	33.00	2.00	1.50	0.50	0.25	0.010	3.15	0.85

SPECIFICATIONS: BS3075NA18 (Wire), BS3076NA18 (Rod and Bar), ASTM B 865 (Rod and Bar), DIN 17752 (Rod and Bar), DIN 17753 (Wire), DIN 17754 (Forgings), QQ-N-286 (Rod, Bar, Wire, and Forgings), SAE AMS 4676 (Rod and Bar), ASME Code Case 1192 (Rod and Bar), ISO 9723 (Bar), ISO 9724 (Wire), ISO 9725 (Forgings), Werkstoff 2.4375

Material Data