

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

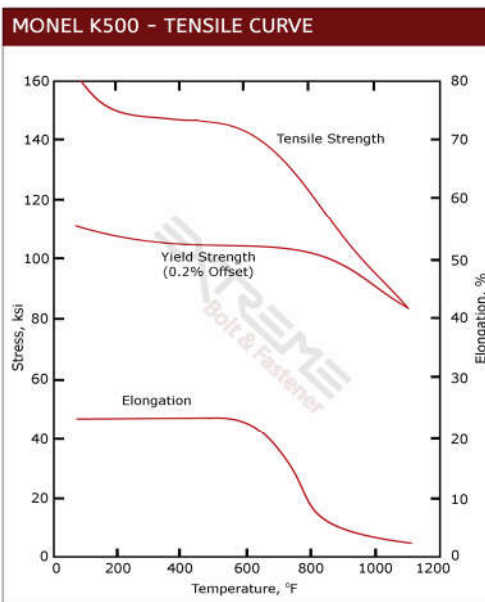
- Unique combination of extreme high strength and saltwater resistance.
- Resistant to pure and saltwater, non-oxidizing mineral acids, salts, alkalis, and sour gas
- Retains strength across wide temperature range: cryogenic to 1100°F
- Virtually non-magnetic and spark resistance even down to -200°F.

### 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



### MONEL K500 - Tensile Data

Temperature (°F)	Ultimate Tensile (ksi)	Yield Strength at 0.2% Offset (ksi)	Elongation %
Room Temp.	160	110	45
200	150	108	47
400	147	105	48
600	142	103	49
800	125	102	19
1000	95	90	8

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