TECHNICAL DATA
MP35N

The highest strength alloy available to industry, MP35N fasteners are known for their extraordinary strength. They offer high strength properties that range from 227 ksi to 294 ksi ultimate tensile strength (with age hardening). MP35N is resistant to high temperature oxidation and can retain much of their strength up to 800˚F. In addition to their superior strength, MP35N bolts provide good corrosion resistance to mineral acids, hydrogen sulfide, seawater and salt spray environments.

Properties

Ultimate Tensile Strength	285 ksi
Yield Strength at 0.2%	275 ksi
Elongation %	9
Usable Temperature Limit	800˚F / 426˚C

Key Benefits

- The highest strength fastener we offer
- Ultimate tensile strength 227-294 ksi with age hardening
- Retains strength to 800˚F
- Resistant to high temperature oxidation
- Moderate corrosion resistant

Chemistry & Specifications

MP35N	Ni	Co	Cr	Mo
Typical %	35	35	20	10

SPECIFICATIONS: AMS 5844, AMS 5845, AMS7468, ASTM F562, NACE MR0175

Material Data

MP35N - Corrosion Data

Media	Corrosion Resistance	Media	Corrosion Resistance
Nitric Acid	Good	Sulfuric Acid	Good
Phosphoric Acid	Good	Acetic Acid	Excellent
Sodium Hydroxide	Good	Salt Spray (NaCl)	Excellent
Sea Water	Excellent	Sour Oil/Gas	Excellent

Important Note: *The following 4-level rating scale is intended for comparative purposes only for this materials only. Corrosion testing is recommended; factors which affect corrosion resistance include temperature, concentration, pH, impurities, aeration, velocity, crevices, deposits, metallurgical condition, stress, surface finish and dissimilar metal contact.*

MP35N - Tensile Data

AGED, TYPICAL PROPERTIES

Temperature (°F)	Ultimate Tensile (ksi)	Yield Strength at 0.2% Offset (ksi)	Elongation %
Room Temp.	227-294	217-285	10-14.2
300	200-266	190-255	8-13.9
400	193-260	186-248	8-13.5
500	190-253	181-241	8-13
600	184-250	177-236	8-13
700	186-245	176-230	7-13
800	187-240	176-225	4-13