

Nickel Alloys

AMS5844-5/AMS5758 (MP35N) Bar & Sheet

Datasheet Updated
05 August 2021

SPECIFICATIONS

Commercial	MP35N
Aerospace	AMS 5844-5/5758

An age hardenable nickel-cobalt base alloy with a unique combination of properties.

CHEMICAL COMPOSITION

MP35N

Element	% Present
Molybdenum (Mo)	0.00 - 10.00
Chromium (Cr)	Balance
Nickel (Ni)	Balance
Cobalt (Co)	Balance

ALLOY DESIGNATIONS

- AMS5844
- AMS5845
- AMS5758

SUPPLIED FORMS

- Bar
- Strip
- Sheet
- Plate

APPLICATIONS

- Instrument parts in seawater, oil and gas well, medical, chemical and food processing environments
- Downhole pump drive shafts and tools
- High strength marine components
- Springs
- Valve stems and pump shafts in the oil & gas sector
- Fastener system components
- Medical applications
- Non -magnetic, electrical components and sensing devices
- Components in autosport

CHARACTERISTICS

- Excellent tensile strength, ductility and toughness
- Excellent resistance to the effects of corrosion
- Resistant to hydrogen sulphide corrosion, saltwater corrosion and also offers resistance to other chloride solutions and certain mineral acids
- Resistance to crevice cracking in saltwater environments is also excellent.

DISCLAIMER

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