

# Nickel Alloy Mp159® Bar

## *Typical Applications*

Fasteners

Jet Engine components

Prosthetic devices

Marine Applications

*MP159 is a nickel cobalt based alloy with the same characteristics as MP35N.*

MP159 alloy is an ultra high strength material, with good toughness, ductility and excellent corrosion resistance and through work strengthening and aging achieves an ultimate tensile figure in excess of 1830 MPa.

## Technical specification

### *Related Specifications*

**AMS 5841**

**AMS 5842**

**AMS 5843**

**UNS R30195**

### *Specific Gravity*

**8.37 g/cm<sup>3</sup>**

### *Chemical Composition (WT %)*

<b>Ni</b>	25.5
<b>Co</b>	35.7
<b>Cr</b>	19.0
<b>Fe</b>	9.0

<b>Mo</b>	7.0
<b>Ti</b>	3.0
<b>Cb</b>	6.0
<b>Al</b>	0.2

### *Typical Mechanical Properties*

	Condition Annealed	1925 deg f/4 hrs/WQ
<b>0.2% Proof Stress</b>	MPA	400
<b>Tensile Strength</b>	MPA	850
<b>Elongation</b>	%	60
<b>Reduction of area</b>	%	69

Need more information? **Get in touch**

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