



### **MP 159 Plate, Sheet, Pipe, Bar**

MP 159 is a Nickel-Cobalt based multiphase alloy. MP 159 combination of properties enables ultra-high strength, toughness, good ductility and excellent corrosion resistance. Through work strengthening and aging MP 159 alloy exhibits ultimate tensile strength levels in excess of 1830 MPa. MP 159 is used in many different industries from use in prosthetic devices, jet engine components, fasteners, marine applications to petroleum industry applications.

#### **MP159 Nickel base alloy Chemical Analysis:**

Weight %	Ni	Co	Cr	Fe	Mo	Ti	Cb
MP159	25.5	35.7	19.0	9.0	7.0	3.0	0.6

#### **MP159 Nickel base alloy Mechanical Property:**

Material	Condition	Tensile Strength MPA	Yield Strength MPA	Elongation %	Reduction of Area %
MP159	Annealed	843	398	60	69

#### **MP159 alloy Fabrication and Heat Treatment:**

Cold Working of MP159 alloy: MP 159 is ductile in nature and capable of being cold worked using conventional methods.

MP159 alloy Annealing: MP 159 can be annealed at 1177 °C (2150 °F) and then rapidly air cooled.

#### **Aging of MP159 alloy steel**

The optimum hot tensile strength of the MP 159 is enhanced by cold working (45-50% reduction of area) and aging at 663 °C (1225 °F) for 4 hours, which is then followed by air cooling.

Katalor can supply MP159 alloy steel, if you have any needs of MP159 alloy please be free to contact us. Waiting for your inquiry!