

# Material: ASTM B 690 N08366

## Standard Specification for Iron-Nickel-Chromium-Molybdenum Alloys Pipe and Tube

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM B 690 N08366 Iron-Nickel-Chromium-Molybdenum Alloys Pipe and Tube

**Application:** Intended for Valve, Pump, General Engineering, Automotive and other Industries

**Grade Belongs to the Industry:** Pipe and Tube

Chemical Composition		
Carbon	C %	0.035 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Chromium	Cr %	20.000 - 22.000
Sulphur	S %	0.030 max.
Molybdenum	Mo %	6.000 - 7.000
Phosphorus	P %	0.040 max.
Nickel	Ni %	23.500 - 25.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
Tensile Strength in Mpa	517 min.
Yield Strength in Mpa	206 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 688 N08366	ASTM	USA	Plate, Sheet and Strip
B 691 N08366	ASTM	USA	Rod, Bar and Wire
SB-690 N08366	ASME	USA	Pipe and Tube
SB-691 N08366	ASME	USA	Rod, Bar and Wire
SB-688 N08366	ASME	USA	Plate, Sheet and Strip
-	-	-	-
-	-	-	-

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