

# 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			Heat Treatment	
Carbon	C %	0.035 max.	As-Cast or Annealing or Age Hardning	
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	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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