

# Material: ASTM B 462 N06686

## Standard Specification for Forged or Rolled Alloy Pipe Flanges, Forged Fittings, and Valves and Parts for Corrosive High-Temperature Service

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM B 462 N06686 Forged or Rolled Alloy Pipe Flanges, Forged Fittings, and Valves and Parts for Corrosive High-Temperature Service

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

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

Chemical Composition			Heat Treatment
Carbon	C %	0.010 max.	
Silicon	Si %	0.080 max.	
Manganese	Mn %	0.750 max.	
Phosphorus	P %	0.040 max.	
Sulphur	S %	0.020 max.	
Chromium	Cr %	19.000 - 23.000	
Molybdenum	Mo %	15.000 - 17.000	
Iron	Fe %	5.000 max.	
Titanium	Ti %	0.020 - 0.250	
Tungsten	W %	3.000 - 4.400	
Nickel	Ni %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	

  

Mechanical Properties		
Tensile Strength in Mpa		690 min.
Yield Strength in Mpa		310 min.
Elongation in %		45 min.
Reduction of Area in %		-
Hardness in BHN		-
Impact in Joule		-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 163 N06686	ASTM	USA	Tube
B 564 N06686	ASTM	USA	Forging
B 574 N06686 Grade 1	ASTM	USA	Rod
B 575 N06686	ASTM	USA	Plate, Sheet and Strip
B 619 N06686	ASTM	USA	Pipe
B 622 N06686	ASTM	USA	Pipe and Tube
B 626 N06686	ASTM	USA	Tube

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