

# Material: ASTM B 462 N06045

## 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 N06045 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		
Carbon	C %	0.050 - 0.120
Silicon	Si %	2.500 - 3.000
Manganese	Mn %	1.000 max.
Copper	Cu %	0.300 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	26.000 - 29.000
Cerium	Ce %	0.030 - 0.090
Iron	Fe %	21.000 - 25.000
Phosphorus	P %	0.020 max.
Nickel	Ni %	45.000 min.
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardening

Mechanical Properties	
Tensile Strength in Mpa	620 min.
Yield Strength in Mpa	241 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 163 N06025	ASTM	USA	Tube
B 166 N06025	ASTM	USA	Rod, Bar and Wire
B 167 N06025	ASTM	USA	Pipe and Tube
B 168 N06025	ASTM	USA	Plate, Sheet and Strip
B 564 N06025	ASTM	USA	Forging
B 516 N06025	ASTM	USA	Tube
B 517 N06025	ASTM	USA	Pipe

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