

# Material: DIN X 5 CrNiCuNb 16-4

## Standard Specification for Martensitic, Precipitation Hardening, Stainless Steels

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** DIN X 5 CrNiCuNb 16-4 Martensitic, Precipitation Hardening, Stainless Steels

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

**Grade Belongs to the Industry:** Steel

Chemical Composition		
Carbon	C %	0.070 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.600 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	15.000 - 17.500
Nickel	Ni %	3.000 - 5.000
Niobium	Nb %	0.450 max.
Copper	Cu %	3.000 - 5.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	800 - 1275
Yield Strength in Mpa	520 min.
Elongation in %	3 min.
Reduction of Area in %	-
Hardness in HB	360 max.
Impact in Joule	15 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA747 CB7Cu-1	ASME	USA	Casting
17-4PH	SAE	USA	Steel
Z 7 CNU 17-04	AFNOR NF	France	Steel
5622	AMS	USA	Bar, Wire, Tube and Forging
J92180	UNS	USA	Casting
X 5 CrNiCuNb 16-4	EN	European Union	Forging
A747 Grade CB7Cu-1(H900)	ASTM	USA	Casting

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