

Material: EN X 5 CrNiCuNb 16-4

Standard Specification for Open Die Steel forgings for General Engineering Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: EN X 5 CrNiCuNb 16-4 Open Die Steel forgings for General Engineering Purposes

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

Grade Belongs to the Industry: Forging

Chemical Composition		
Carbon	C %	0.070 max.
Silicon	Si %	0.700 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	15.000 - 17.000
Nickel	Ni %	3.000 - 5.000
Molybdenum	Mo %	0.600 max.
Copper	Cu %	3.000 - 5.000
Niobium	Nb %	0.450 max.
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
X 5 CrNiCuNb 16-4	DIN	Germany	Steel
J92180	UNS	USA	Casting
A747 Grade CB7Cu-1(H900)	ASTM	USA	Casting

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India