

## 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			Heat Treatment	
Carbon	C %	0.070 max.	Normalizing or Annealing or Hardening + Tempering	
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	<b>Mechanical Properties</b> 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	
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-	-	-		
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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

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)