

Material: SAE 17-4PH

Standard Specification for Special Purpose Alloys

Group: Ferrous Stainless Steel Alloys

Sub Group: SAE 17-4PH Special Purpose Alloys

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 max.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 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		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	861.8 - 1552
-	-	-	Yield Strength in Mpa	620.5 - 1206.6
-	-	-	Elongation in %	3 - 16
-	-	-	Reduction of Area in %	12 min.
-	-	-	Hardness in HB	269 - 510
-	-	-	Impact in Joule	25 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA747 CB7Cu-1	ASME	USA	Casting
J92180	UNS	USA	Casting
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
X 5 CrNiCuNb 16-4	EN	European Union	Forging
A747 Grade CB7Cu-1(H900)	ASTM	USA	Casting

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