

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.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	15.000 - 17.500	Normalising or Annealing or Hardening + Tempering	
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
-	-	-	Impac <mark>t in Joule</mark>	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	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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