

Material: AFNOR NF Z7CNU17-04

Standard Specification for General Purpose Stainless Steels

Group: Ferrous Stainless Steel Alloys

Sub Group: AFNOR NF Z7CNU17-04 General Purpose Stainless Steels

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.070 max.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.750 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	15.500 - 17.500		
Nickel	Ni %	4.000 - 5.000		
Niobium	Nb %	0.150 - 0.450		
Copper	Cu %	3.000 - 5.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	930 - 1650
-	-	-	Yield Strength in Mpa	720 - 1100
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	363 max.
-	-	-	Impact in Joule	30 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA747 CB7Cu-1	ASME	USA	Casting
17-4PH	SAE	USA	Steel
J92180	UNS	USA	Casting
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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