

Material: UNS J11872

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: NS J11872 Alloy Steel Casting

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.210	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.300 - 0.600		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	1.000 - 1.500		
Molybdenum	Mo %	0.450 - 0.650		
Nickel	Ni %	0.500 max.		
Vanadium	V %	0.030 max.		
Aluminium	Al %	0.010 max.		
			Mechanical Properties	
Copper	Cu %	0.350 max.	Tensile Strength in Mpa	550 - 725
Iron	Fe %	Balance	Yield Strength in Mpa	345 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	45 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-217 Grade WC11	ASME	USA	Casting
A217 Grade WC11	ASTM	USA	Casting
G 17 CrMo 5-5	AFNOR NF	France	Casting
A426 Grade CP11	ASTM	USA	Steel
621	BS	British	Plate
G S 17 CrMo 5-5	DIN	Germany	Casting
G 17 CrMo 5-5	EN	European Union	Casting

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