

Material: AISI E2512

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: AISI E2512 Alloy Steel Casting

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.090 - 0.140
Silicon	Si %	0.200 - 0.350
Manganese	Mn %	0.450 - 0.600
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Nickel	Ni %	4.750 - 5.250
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

Mechanical Properties
Tensile Strength in Mpa
Yield Strength in Mpa
Elongation in %
Reduction of Area in %
Hardness in BHN
Impact in Joule

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX 10 Ni 5	DIN	Germany	Casting
Ao 10 Ni 20	MSZ	Hungary	Casting
2512.0000	SAE	USA	Steel
AM 8 Ni 18	UNE	Spain	Casting
J41501	UNS	USA	Casting
1.5681	DIN	Germany	Casting
A757 B4N B4Q	ASTM	USA	Casting

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