

# 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			Heat Treatment	
Carbon	C %	0.090 - 0.140	Normalizing or Annealing or Hardening + Tempering	
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		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa - Yield Strength in Mpa - Elongation in % - Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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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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