

Material: SAE 2512

Standard Specification for Former Sae Standard and Former Sae Ex-Steels

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 2512 Former Sae Standard and Former Sae Ex-Steels

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.090 - 0.140	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.200 - 3.500		
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		
-	-	-	Mechanical Properties Tensile Strength in Mpa 485 min. Yield Strength in Mpa 275 min. Elongation in % 24 min. Reduction of Area in % 35 min. Hardness in BHN - Impact in Joule 20 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
E2512	AISI	USA	Casting
GX 10 Ni 5	DIN	Germany	Casting
AM 8 Ni 18	UNE	Spain	Casting
Ao 10 Ni 20	MSZ	Hungary	Casting
J41501	UNS	USA	Casting
1.5681	DIN	Germany	Casting
A757 B4N B4Q	ASTM	USA	Casting

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