



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	Normalising 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

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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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