

Material: ASTM A 682 G10550

Standard Specification for Steel Castings Steel and Strip for General Engineering Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A 682 G10550 Steel Castings Steel and Strip for General Engineering Purposes

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

Grade Belongs to the Industry: Steel and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.500 - 0.600	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.150 - 0.300		
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	650 - 660
-	-	-	Yield Strength in Mpa	360 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	30 - 40
-	-	-	Hardness in BHN	192 - 197
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AW3	BS	British	Casting
1055	SAE	USA	Casting
1055	AISI	USA	Casting
A 1040 1055	ASTM	USA	Casting
A 29 1055	ASTM	USA	Casting
A 510 1055	ASTM	USA	Casting
A 576 10L55	ASTM	USA	Bar

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