

Material: EN 1.1156

Standard Specification for Castings for Constructional Carbon Steel

Group: Ferrous Mild Steel Alloys

Sub Group: EN 1.1156 Castings for Constructional Carbon Steel

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 - 0.280	Normalizing + Tempering or Hardening + Tempering	
Silicon	Si %	0.300 - 0.500		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	0.300 max.		
Nitrogen	N %	0.007 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	450 - 620
-	-	-	Yield Strength in Mpa	240 min.
-	-	-	Elongation in %	24 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-352 LCB	ASME	USA	Casting
1.1156	DIN	Germany	Casting
J03003	UNS	USA	Casting
GC24E	EN	European Union	Casting
A352 LCB	ASTM	USA	Casting
1.1156	DIN	Germany	Casting
1.0619	EN	European Union	Casting

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