

Material: ONORM 1.0138

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: ONORM 1.0138 Steel Castings for General Engineering Purposes

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 max.	As Cast or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	400 - 580
-	-	-	Yield Strength in Mpa	225 min.
-	-	-	Elongation in %	17 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AL1	BS	British	Casting
1522	SAE	USA	Casting
1522	AISI	USA	Bar
1.0044	ONORM	Australia	Casting
A 29 1522	ASTM	USA	Bar
A 510 1522	ASTM	USA	Wire and Rod
A 576 15L22	ASTM	USA	Bar

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