

Material: ONORM 1.0044

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: ONORM 1.0044 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 %	0.180 - 0.240	As Cast or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	1.100 - 1.400		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.050 max.		
Aluminium	Al %	0.020 max.		
Boron	B %	0.0005 - 0.0003		
Copper	Cu %	0.200 max.		
Niobium	Nb %	0.025 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 430 min. Yield Strength in Mpa 230 min. Elongation in % 22 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 20 J @ RT	
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-	-	-		
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AL1	BS	British	Casting
1522	SAE	USA	Casting
1522	AISI	USA	Bar
1.0138	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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