

# Material: ASTM A 576 10L55

## Standard Specification for Steel Castings Bar for General Engineering Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ASTM A 576 10L55 Steel Castings Bar for General Engineering Purposes

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

**Grade Belongs to the Industry:** Bar

Chemical Composition		
Carbon	C %	0.500 - 0.600
Silicon	Si %	0.100 max.
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Boron	B %	0.0005 - 0.0030
Copper	Cu %	0.200 max.
Lead	Pb %	0.150 - 0.350
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Annealing or Normalizing or Hardening and Tempering

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 682 G10550	ASTM	USA	Steel and Strip

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