

Material: ASTM A915 Grade SC 1045

Standard Specification for Steel Castings, Carbon, and Alloy, Chemical Requirements

Similar to Standard Wrought Grades

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A915 / A915M Steel Castings, Carbon, and Alloy, Chemical Requirements Similar to Standard Wrought Grades

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

Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.430 - 0.500
Silicon	Si %	0.300 - 0.600
Manganese	Mn %	0.500 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As- Cast or Normalising or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J04502	UNS	USA	Casting
1045	AISI	USA	Bar, Wire, Tube and Forging
1045	SAE	USA	Bar, Wire, Tube and Forging
1045	AS	Australia	Bar, Wire, Tube and Forging
1045	AMS	USA	Bar, Wire, Tube and Forging
A 108 1045	ASTM	USA	Bar, Wire, Tube and Forging
A 29 1040	ASTM	USA	Bar, Wire, Tube and Forging

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