

# Material: UNS J04502

## Standard Specification for Steel Castings, Carbon and Alloy, Chemical Requirements Similar to Standard

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** UNS J04502 Steel Castings, Carbon and Alloy, Chemical Requirements Similar to Standard

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

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.430 - 0.500	As- Cast or Normalizing or Annealing or Hardening + Tempering	
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		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa - Yield Strength in Mpa - Elongation in % - Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A915 Grade SC 1045	ASTM	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 1045	ASTM	USA	Bar, Wire, Tube and Forging

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