

Material: BS A 3

Standard Specification for Carbon Steel; Railway Rolling Stock Materials

Group: Ferrous Mild Steel Alloys

Sub Group: BS A 3 Carbon Steel; Railway Rolling Stock Materials

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.450 max.	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.500 max.		
Nickel	Ni %	0.300 max.		
Molybdenum	Mo %	0.400 max.		
Vanadium	V %	0.100 max.		
Copper	Cu %	0.300 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 650 - 800 Yield Strength in Mpa 420 min. Elongation in % 19 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J04002	UNS	USA	Casting
DIN 1.1190	DIN	Germany	Steel
1040	AISI	USA	Forging, Bar, Wire, and Shape
42CD4M	AFNOR NF	France	Casting
A732 3Q	ASTM	USA	Casting
A732 1Q	ASTM	USA	Casting
A732 3A	ASTM	USA	Casting

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com