

Material: SAE 5152

Standard Specification for High Carbon Cast Steel

Group: Ferrous Mild Steel Alloys

Sub Group: SAE 5152 High Carbon Cast Steel

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.480 - 0.550	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.350		
Manganese	Mn %	0.700 - 0.900		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.900 - 1.200		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 621 min. Yield Strength in Mpa 345 min. Elongation in % 20 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1606.0000	SS	Sweden	Casting
50 CD 4-M	AFNOR NF	France	Casting
1050	AISI	USA	Forging, Bar, Wire, and Shape
735 A 51	BS	British	Hot Formed Spring
C 3	MSZ	Hungary	Steel
C48GW-N-A	JIS	Japan	Forging
A732 4A	ASTM	USA	Casting

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