

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		
Carbon	C %	0.480 - 0.550
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

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	-

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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