

Material: AISI 6120

Standard Specification for Structural and Constructional Steels Forging, Bar, Wire and Shape

Group: Ferrous Mild Steel Alloys

Sub Group: AISI 6120 Structural and Constructional Steels Forging, Bar, Wire and Shape

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

Grade Belongs to the Industry: Forging, Bar, Wire and Shape

Chemical Composition		
Carbon	C %	0.170 - 0.220
Silicon	Si %	0.150 - 0.350
Manganese	Mn %	0.700 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	0.700 - 0.900
Vanadium	V %	0.100 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	586 min.
Yield Strength in Mpa	379 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	13.3 - 22 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13052	UNS	USA	Casting
200-400 W	JIS	Japan	Casting
B 2	BS	British	Forging
B 4	BS	British	Forging
B 5	BS	British	Forging
B 6	BS	British	Forging
A732 5N	ASTM	USA	Casting

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