



## Material - AMS 4620

### Standard Specification for Structural and Constructional Steels

Group - Ferrous Mild Steel Alloys

Sub Group - AMS 4620 Structural and Constructional Steels

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

Grade Belongs to the Industry - Bar and Forging

Chemical Composition			Heat Treatment															
Carbon	C %	0.170 - 0.220	Annealing or Normalising or Hardening + Tempering															
Silicon	Si %	0.150 - 0.350																
Manganese	Mn %	0.450 - 0.650																
Phosphorus	P %	0.035 max.																
Sulphur	S %	0.040 max.																
Nickel	Ni %	1.650 - 2.000																
Molybdenum	Mo %	0.200 - 0.300																
Copper	Cu %	0.500 max.																
Tungsten	W %	0.100 max.																
other	Ot %	1.000 max.																
Iron	Fe %	Balance	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>827 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>689 min.</td> </tr> <tr> <td>Elongation in %</td> <td>10 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	827 min.	Yield Strength in Mpa	689 min.	Elongation in %	10 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	-
Mechanical Properties																		
Tensile Strength in Mpa	827 min.																	
Yield Strength in Mpa	689 min.																	
Elongation in %	10 min.																	
Reduction of Area in %	-																	
Hardness in BHN	-																	
Impact in Joule	-																	
-	-	-																
-	-	-																
-	-	-																
-	-	-																

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J12094	UNS	USA	Casting
6150	SAE	USA	Bar, Tube, Sheet, Strip and Forging
4620	AISI	USA	Forging, Bar, Wire, and Shape
A732 11Q	AISI	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.