GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J404 I SAE J1397 4820

Standard Specification for Chemical Compositions and Estimated Mechanical Properties and Machinability of Steel

Group - Ferrous Mild Steel Alloys

Sub Group - SAE J404 I SAE J1397 4820 Chemical Compositions and Estimated Mechanical Properties and Machinability of Steel

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

Grade Belongs to the Industry - Steel and Bars

Chemical Composition		
Carbon	C %	0.180 - 0.230
Manganese	Mn %	0.500 - 0.700
Phosphorus	P %	0.030 max.
Sulphur	S %	0.040 max.
Silicon	Si %	0.150 - 0.350
Nickel	Ni %	3.250 - 3.750
Molybdenum	Mo %	0.200 - 0.300
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing

Mechanical Properties	
Tensile Strength in Mpa	-
Proof Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	187 - 229
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G48200	UNS	USA	Steel
SAE J 404 4820	AISI	USA	Steel
4820 H	AISI	USA	Steel
A 29 4820	ASTM	USA	Steel and Bars
A 505 4820	ASTM	USA	Sheet and Strip
A 519 4820	ASTM	USA	Steel and Tubing
A 752 Grade 4820	ASTM	USA	Steel and Wire Rods

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email 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.