GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A414 Grade C

Standard Specification for Steel, Sheet, Carbon, for Pressure Vessels

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A414 Grade C Steel, Sheet, Carbon, for Pressure Vessels

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

Grade Belongs to the Industry - Steel and Sheet

Chemical Composition		
Carbon	C %	0.250 max.
Manganese	Mn %	0.900 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Aluminium	Al %	0.020 - 0.080
Copper	Cu %	0.400 max.
Nickel	Ni %	0.400 max.
Chromium	Cr %	0.300 max.
Molybdenum	Mo %	0.120 max.
Vanadium	V %	0.030 max.
Niobium	Nb %	0.020 max.
Cr + Cu + Mo + Ni	Cr% + Cu% + Mo% + Ni%	1.000 max.
Cr + Mo	Cr % + Mo %	0.320 max.
Iron	Fe %	Balance
-	-	-

Heat Treatment
As-Raw

Mechanical Properties	
Tensile Strength in Mpa	380 - 485
Yield Strength in Mpa	230 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10028-2 P 235 GH	AFNOR NF	France	Steel
EN 10028-2 P 235 GH	B.S.	United Kingdom	Steel
10028-2 P 235 GH	EN	European Union	Steel
P 235 GH	NBN	Belgium	Steel
EN 10028-2 P 235 GH	UNI	Italy	Steel
EN 10028-2 P235GH	DIN	Germany	Steel
EN 10028-2 1.0345	DIN	Germany	Steel

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.