GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A414 Grade E

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A414 Grade E 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 %	0.270 max.
Manganese	Mn %	1.200 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	450 - 585
Yield Strength in Mpa	260 min.
Elongation in %	18 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**
10208-2 L 290 NB	EN	European Union	Pipe
10208-2 1.8977	EN	European Union	Pipe
10208-2 L 485 MB	EN	European Union	Pipe
EN 10208-2 1.8977	DIN	Germany	Pipe
EN 10208-2 L485MB / StE 480.7 TM	DIN	Germany	Pipe
EN 10208-2 L 290 NB	DIN	Germany	Pipe
EN 10208-2 L 290 NB	AFNOR NF	France	Pipe

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.