GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS 1501-1 164 Grade 400

Standard Specification for Carbon and Carbon Manganese Steel

Group - Ferrous Mild Steel Alloys

Sub Group - BS 1501-1 164 Grade 400 Carbon and Carbon Manganese Steel

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

Grade Belongs to the Industry - Steel and Plate

Chemical Composition		
Carbon	C %	0.230 max.
Silicon	Si %	0.100 - 0.350
Manganese	Mn %	0.500 - 1.300
Phosphorus	P %	0.030 max.
Sulphur	S %	0.030 max.
Aluminium	Al %	0.015 min.
Chromium	Cr %	0.250 max.
Copper	Cu %	0.300 max.
Molybdenum	Mo %	0.100 max.
Nickel	Ni %	0.300 max.
Cr + Cu + Mo + Ni	Cr% + Cu% + Mo% + Ni%	0.700 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Normalizing

Mechanical Properties	
Tensile Strength in Mpa	400 - 520
Yield Strength in Mpa	275 min.
Elongation in %	23 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	41 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
1502-2 151	B.S.	United Kingdom	Steel and Bars
1502 161	B.S.	United Kingdom	Steel and Bars
3606 400	B.S.	United Kingdom	Steel
1594 HA250	AS	Australia	Steel
1414 A11	GOST	Russia	Steel
10028-2 P 235 GH	EN	European Union	Steel
EN 10028-2 P235GH	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

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