GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10025-2 S500J0 I 1.0502

Standard Specification for Hot Rolled Products of Structural Steels

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10025-2 S500J0 I 1.0502 Hot Rolled Products of Structural Steels

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.220 max.
Silicon	Si %	0.550 max.
Manganese	Mn %	1.700 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.030 max.
Nitrogen	N %	0.025 max.
Copper	Cu %	0.550 max.
Niobium	Nb %	0.050 max.
Vanadium	V %	0.130 max.
Titanium	Ti %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Normalizing

Mechanical Properties	
Tensile Strength in Mpa	580 - 760
Yield Strength in Mpa	500 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	27 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
141432 1432	SS	Sweden	Steel
EN 10028-2 P 265 GH	AFNOR NF	France	Steel
10028-2 1.0425	EN	European Union	Steel
10273 1.0425	EN	European Union	Steel
10028-2 1.0425	DIN	Germany	Steel
10028-2 P 265 GH	B.S.	United Kingdom	Steel
P 265 GH	NBN	Belgium	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.