GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - BS 1501-1 151 Grade 400

## Standard Specification for Carbon and Carbon Manganese Steel

**Group - Ferrous Mild Steel Alloys**

**Sub Group - BS 1501-1 151 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 % | 0.200 max. |
| Silicon | Si % | 0.350 max. |
| Manganese | Mn % | 0.500 - 1.300 |
| Phosphorus | P % | 0.030 max. |
| Sulphur | S % | 0.045 max. |
| 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 | 225 min. |
| Elongation in % | 24 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** |
| 35-056 FS 12 M 4 | AFNOR NF | France | Steel |
| 35-056 FS 12 MD 4 | AFNOR NF | France | Steel |
| 1594 HA250 | AS | Australia | Steel |
| 141330 1330 | SS | Sweden | Steel |
| EN 10028-2 161 Grade 360 | B.S. | United Kingdom | Steel |
| EN 10028-2 P235GH | DIN | Germany | Steel |
| 10028-2 P 235 GH | EN | European Union | 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.