GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - IS 4368 20Mn2

## Standard Specification for Alloy Steel Billets, Blooms and Slabs for Forgings for General Engineering Purposes

**Group - Ferrous Mild Steel Alloys**

**Sub Group - IS 4368 20Mn2 Alloy Steel Billets, Blooms and Slabs for Forgings for General Engineering Purposes**

**Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries**
**Grade Belongs to the Industry - Forging**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.160 - 0.210 |
| Silicon | Si % | 0.100 - 0.350 |
| Manganese | Mn % | 1.300 - 1.700 |
| Sulphur | S % | 0.050 max. |
| Phosphorus | P % | 0.050 max. |
| Nickel | Ni % | 0.300 max. |
| Molybdenum | Mo % | 0.060 max. |
| Vanadium | V % | 0.050 max. |
| Copper | Cu % | 0.300 max. |
| Tin | Sn % | 0.050 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw or Annealing or Normalizing |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | - |
| Proof Strength in Mpa | - |
| Elongation in % | - |
| Reduction of Area in % | - |
| Hardness in HB | 241 max. |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| 5892-1 A 2 | B.S. | United Kingdom | Steel |
| 10222-2 1.0426 | EN | European Union | Forging |
| 1594 HA350 | AS | Australia | Steel |
| 1594 HA400 | AS | Australia | Steel |
| 9327-4 PH 35 | ISO | International | Bars and Forging |
| 9328-4 PL 255 TN | ISO | International | Steel, Plates and Strip |
| 10222-2 P 280 GH | EN | European Union | Steel and Forging |

**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.