GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - BS EN 10250-2 C22 I 1.0402

## Standard Specification for Open Die Steel Forgings for General Engineering Purposes

**Group - Ferrous Mild Steel Alloys**

**Sub Group - BS EN 10250-2 C22 I 1.0402 Open Die Steel 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 % | 0.170 - 0.240 |
| Silicon | Si % | 0.400 max. |
| Manganese | Mn % | 0.400 - 0.700 |
| Phosphorus | P % | 0.045 max. |
| Sulphur | S % | 0.045 max. |
| Chromium | Cr % | 0.400 max. |
| Molybdenum | Mo % | 0.100 max. |
| Nickel | Ni % | 0.400 max. |
| Cr + Mo + Ni | Cr% + Mo% + Ni% | 0.630 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw or Normalizing or Normalizing & Tempering or Quenching & Tempering |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 410 min. |
| Yield Strength in Mpa | 210 min. |
| Elongation in % | 25 min. |
| Reduction of Area in % | - |
| Hardness in HRB | - |
| Impact in Joule | 35 @ RT |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| EN 10083-2 1 C 22 | B.S. | United Kingdom | Steel |
| EN 10083-2 1 C 25 | B.S. | United Kingdom | Steel |
| 10083-2 1 C 22 | EN | European Union | Steel |
| 36051-2 1 C 22 | UNE | Spain | Steel |
| EN 10083-2 C 22 | AFNOR NF | France | Steel |
| EN 10083-2 C 22 | NS | Norway | Steel |
| EN 10083-2 C 22 | UNI | Italy | 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.