GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - IS 4898 Grade 1

## Standard Specification for Steel Casting for Carburizing

**Group - Ferrous Mild Steel Alloys**

**Sub Group - IS 4898 Grade 1 Steel Casting for Carburizing**

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

**Grade Belongs to the Industry - Casting**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.100 - 0.180 |
| Silicon | Si % | 0.600 max. |
| Manganese | Mn % | 0.600 - 1.000 |
| Sulphur | S % | 0.040 max. |
| Phosphorus | P % | 0.040 max. |
| Chromium | Cr % | 0.250 max. |
| Molybdenum | Mo % | 0.150 max. |
| Copper | Cu % | 0.300 max. |
| Nickel | Ni % | 0.400 max. |
| Other | Ot % | 0.800 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Cast or Annealing or Normalizing or Normalizing & Tempering or Hardening + Tempering |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 490 min. |
| Proof Strength in Mpa | - |
| Elongation in % | 12 min. |
| Reduction of Area in % | - |
| Hardness in HB | - |
| Impact in Joule | 25 @ RT |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| 6354 15 G | BDS | Bulgaria | Steel |
| 5892-1 A 2 | B.S. | United Kingdom | Steel |
| 3146-1 CLA 9 | B.S. | United Kingdom | Casting |
| 6280 37 B | MSZ | Hungary | Steel |
| 6280 37 C | MSZ | Hungary | Steel |
| 6280 37 D | MSZ | Hungary | Steel |
| 2074 C1 | AS | Australia | Steel and Casting |

**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.