



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE D500

Standard Specification For Ductile Cast Irons Castings

Group - Ferrous SG Iron I Ductile Iron Alloys

Sub Group - SAE D500 Ductile Cast Irons Castings

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | | | |
|----------------------|------|---------------|------------------------------|--|-------------------------|-----------|
| Carbon | C % | 3.200 - 4.100 | As-Cast | | | |
| Silicon | Si % | 1.800 - 3.000 | | | | |
| Manganese | Mn % | 0.100 - 1.000 | | | | |
| Phosphorus | P % | 0.050 max. | | | | |
| Sulphur | S % | 0.035 max. | | | | |
| Magnesium | Mg % | 0.025 - 0.060 | | | | |
| Iron | Fe % | Balance | | | | |
| - | - | - | Mechanical Properties | | | |
| - | - | - | | | | |
| - | - | - | | | Tensile Strength in Mpa | 500 min. |
| - | - | - | | | Yield Strength in Mpa | 320 min. |
| - | - | - | | | Elongation in % | 6 min. |
| - | - | - | | | Reduction of Area in % | - |
| - | - | - | | | Hardness in BHN | 187 - 229 |
| - | - | - | | | Impact in Joule | 54 J @ RT |
| - | - | - | | | | |
| - | - | - | | | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| JS 500-7 | ISO | International | Casting |
| JS 500-7 | AS | Australia | Casting |
| EN-GJS-500-7 | BS | British | Casting |
| EN-JS1050 | UNE | Spain | Casting |
| 5.3200 | SS | Sweden | Casting |
| FCD 500-7 | JIS | Japan | Casting |
| EN-JS1040 | DIN | Germany | 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.

ONE STOP SOLUTION FOR METAL PARTS