



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE D400

Standard Specification For Spheroidal Graphite Cast Irons Castings

Group - Ferrous SG Iron I Ductile Iron Alloys

Sub Group - SAE D400 Spheroidal Graphite 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. | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 400 min. Yield Strength in Mpa 250 min. Elongation in % 18 min. Reduction of Area in % - Hardness in BHN 143 - 170 Impact in Joule 120 J @ RT | |
| - | - | - | | |
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| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| JS 400-18 | ISO | International | Casting |
| JS 400-18 | AS | Australia | Casting |
| A 536 60-40-18 | ASTM | USA | Casting |
| D4018 | SAE | USA | Casting |
| 5.3105 | EN | European Union | Casting |
| EN-GJS-400-18 | UNE | Spain | Casting |
| SG 400 I 18 | IS | India | 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

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ONE STOP SOLUTION FOR METAL PARTS