



Material - IS SG 400 I 18

Standard Specification For Spheroidal Graphite Cast Irons Castings

Group - Ferrous SG Iron I Ductile Iron Alloys

Sub Group - IS SG 400 I 18 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 % | - | As-Cast | | | |
| Silicon | Si % | - | | | | |
| Manganese | Mn % | - | | | | |
| Phosphorus | P % | - | | | | |
| Sulphur | S % | - | | | | |
| Chromium | Cr % | - | | | | |
| Nickel | Ni % | - | | | | |
| Copper | Cu % | - | | | | |
| Iron | Fe % | - | | | | |
| - | - | - | | | | |
| - | - | - | <th colspan="2">Mechanical Properties</th> | | 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 | 130 - 180 | | |
| - | - | - | Impact in Joule | - | | |

| 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 |
| D400 | SAE | USA | Casting |
| D4018 | SAE | USA | Casting |
| 5.3105 | EN | European Union | Casting |
| EN-GJS-400-18 | UNE | Spain | 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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