GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - Gravity 309SI

## Standard Specification for Stainless and Heat Resisting Steels

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - Gravity 309SI Stainless and Heat Resisting Steels**

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

**Grade Belongs to the Industry - Steel, Bars, Rods, Casting and Forging**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.060 max. |
| Silicon | Si % | 1.000 - 2.000 |
| Manganese | Mn % | 1.000 - 2.000 |
| Phosphorus | P % | 0.040 max. |
| Sulphur | S % | 0.040 max. |
| Chromium | Cr % | 17.000 - 20.000 |
| Nickel | Ni % | 10.000 - 14.000 |
| Other | Ot % | 1.000 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw or As-Cast or Solution Annealing |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 400 max. |
| Yield Strength in Mpa | 200 min. |
| Elongation in % | 25 min. |
| Reduction of Area in % | 40 min. |
| Hardness in HB | 130 - 230 |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| 10269 1.4303 | EN | European Union | Steel |
| EN 10088-2 1.4303 | DIN | Germany | Steel |
| 683-13 13 | ISO | International | Steel |
| AMS 5514 30305 | SAE | USA | Plate, Sheet and Strip |
| SAE AMS 5514 305 | AISI | USA | Steel |
| 1554 305 S 11 | B.S. | United Kingdom | Steel and Wire |
| A 193 B8P | ASTM | USA | 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.