GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - IS 6911 201 A (X 07Cr17Mn12Ni4)

## Standard Specification for Stainless Steel Plate, Sheet and Strip Specification

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - IS 6911 201 A (X 07Cr17Mn12Ni4) Stainless Steel Plate, Sheet and Strip Specification**

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

**Grade Belongs to the Industry - Plate, Sheet and Strip**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.120 max. |
| Silicon | Si % | 1.000 max. |
| Manganese | Mn % | 10.000 - 14.000 |
| Nickel | Ni % | 3.500 - 5.500 |
| Chromium | Cr % | 16.000 - 18.000 |
| Molybdenum | Mo % | 0.700 max. |
| Sulphur | S % | 0.030 max. |
| Phosphorus | P % | 0.045 max. |
| Titanium | Ti % | 0.100 max. |
| Niobium | Nb % | 0.200 max. |
| Copper | Cu % | 0.500 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 540 min. |
| Yield Strength in Mpa | 260 min. |
| Elongation in % | 40 min. |
| Reduction of Area in % | - |
| Hardness in BHN | 217 max. |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| J 405 XM-29 | SAE | USA | Steel |
| SA-240 Type XM-29 | ASME | USA | Plate, Sheet and Strip |
| SA-249 Grade TP XM-29 | ASME | USA | Steel and Tubing |
| SA-276 XM-29 | ASME | USA | Bars and Shapes |
| A 312 TPXM-29 | ASTM | USA | Steel and Pipe |
| A 314 XM-29 | ASTM | USA | Bars and Forging |
| A 358 XM-29 | ASTM | USA | Steel and Pipe |

**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.