GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - KS D 3698 STS290

## Standard Specification for Cold-Rolled Stainless Steel Sheet and Strip

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - KS D 3698 STS290 Cold-Rolled Stainless Steel Sheet and Strip**

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

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

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.050 - 0.150 |
| Silicon | Si % | 1.000 max. |
| Manganese | Mn % | 2.000 - 4.000 |
| Phosphorus | P % | 0.045 max. |
| Sulphur | S % | 0.030 max. |
| Nickel | Ni % | 3.000 - 5.000 |
| Chromium | Cr % | 17.000 - 19.000 |
| Copper | Cu % | 1.000 - 3.000 |
| Nitrogen | N % | 0.150 - 0.250 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 650 min. |
| Yield Strength in Mpa | 350 min. |
| Elongation in % | 45 min. |
| Reduction of Area in % | - |
| Hardness in HB | 250 max. |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| 977 10Ch18N3G3D2L | GOST | Russia | Casting |
| 1.454 | DIN | Germany | Steel |
| GX 4 CrNiCuNb 16-4 | DIN | Germany | Steel |
| 5343 | AMS | USA | Casting |
| Z 4 CNUNb 16.4 M | AFNOR NF | France | Casting |
| A 1028 Grade F | ASTM | USA | Steel and Bars |
| S17400 | UNS | 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**

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