GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - BS ISO 16143-2 X6CrNiMoTi17-12-2 (4571-316-35-I)

## Standard Specification for Corrosion-Resistant Semi-Finished Products, Bars, Rods and Sections

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - BS ISO 16143-2 X6CrNiMoTi17-12-2 (4571-316-35-I) Corrosion-Resistant Semi-Finished Products, Bars, Rods and Sections**

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

**Grade Belongs to the Industry - Bars and Rods**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.080 max. |
| Silicon | Si % | 1.000 max. |
| Manganese | Mn % | 2.000 max. |
| Phosphorus | P % | 0.045 max. |
| Sulphur | S % | 0.030 max. |
| Chromium | Cr % | 16.500 - 18.500 |
| Molybdenum | Mo % | 2.000 - 2.500 |
| Nickel | Ni % | 10.500 - 13.500 |
| Titanium | Ti % | 0.005 - 0.700 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 520 - 720 |
| Proof Strength in Mpa | 245 min. |
| Elongation in % | 40 min. |
| Reduction of Area in % | - |
| Hardness in HB | - |
| Impact in Joule | 100 @ RT |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| 10263-5 1.4571 | EN | European Union | Steel, Bars, Wire and Rod |
| SEW 400 1.4561 | DIN | Germany | Steel and Forging |
| 970-1 316 S 31 | B.S. | United kingdom | Steel |
| 1503 316 S 40 | B.S. | United kingdom | Steel and Forging |
| 1506 316 S 61 | B.S. | United kingdom | Steel and Bars |
| SEW 400 X 1 CrNiMoTi 18-13-2 | DIN | Germany | Steel and Forging |
| EN 10088-3 X6CrNiMoTi17-12-2 | AFNOR NF | France | 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.