GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - BS EN 10088-3 1.4369 (X11CrNiMnN19-8-6)

## Standard Specification for Semi-Finished Products, Bars, Rods, Wire, Sections and Bright Products of Corrosion Resistant Steels for General Purposes

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - BS EN 10088-3 1.4369 (X11CrNiMnN19-8-6) Semi-Finished Products, Bars, Rods, Wire, Sections and Bright Products of Corrosion Resistant Steels for General Purposes**

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

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

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.070 - 0.150 |
| Silicon | Si % | 0.500 - 1.000 |
| Manganese | Mn % | 5.000 - 7.500 |
| Phosphorus | P % | 0.030 max. |
| Sulphur | S % | 0.015 max. |
| Chromium | Cr % | 17.500 - 19.500 |
| Nickel | Ni % | 6.500 - 8.500 |
| Nitrogen | N % | 0.200 - 0.300 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 750 - 950 |
| Proof Strength in Mpa | 370 min. |
| Elongation in % | 35 min. |
| Reduction of Area in % | - |
| Hardness in HBW | 300 max. |
| Impact in Joule | 100 @ RT |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| 10088-1 1.4369 | EN | European Union | Steel |
| 10088-1 X11CrNiMnN19-8-6 | EN | European Union | Steel |
| X 12 CrNiMn 18 8 8 | DIN | Germany | Steel |
| 1.3935 | DIN | Germany | Steel |
| EU 88-3 X 3 CrMnNiN 18 8 7 | EN | European Union | Steel |
| EU 141 X 3 CrMnNiN 18 8 7 KT | EN | European Union | Steel |
| 36-209 Z 4 CMN 18-08-07 Az | 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.