GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - BS EN 10269 X4CrNi18-12 I 1.4303

## Standard Specification for Steel and Nickel Alloys for Fasteners with Specified Elevated and/or Low Temperature Properties

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - BS EN 10269 X4CrNi18-12 I 1.4303 Steel and Nickel Alloys for Fasteners with Specified Elevated and/or Low Temperature Properties**

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

**Grade Belongs to the Industry - Steel**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.060 max. |
| Silicon | Si % | 1.000 max. |
| Manganese | Mn % | 2.000 max. |
| Phosphorus | P % | 0.045 max. |
| Sulphur | S % | 0.015 max. |
| Chromium | Cr % | 17.000 - 19.000 |
| Nickel | Ni % | 11.000 - 13.000 |
| Nitrogen | N % | 0.100 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 700 - 850 |
| Proof Strength in Mpa | 350 min. |
| Elongation in % | 20 min. |
| Reduction of Area in % | - |
| Hardness in HBW | - |
| Impact in Joule | 80 @ RT |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| EN 10088-2 X 4 CrNi 18-12 | UNI | Italy | Casting |
| EN 10088-2 1.4303 | DIN | Germany | Steel |
| EN 10088-3 X4CrNi18-12 | DIN | Germany | Steel |
| EN 10088-1 X4CrNi18-12 | AFNOR NF | France | Steel |
| 1449-2 305 S 19 | B.S. | United Kingdom | Plate, Sheet and Strip |
| 10263-5 X 4 CrNi 18 12 | EN | European Union | Bars, Wire and Rods |
| 10263-5 1.4303 | EN | European Union | Bars, Wire and Rods |

**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.