GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - BS ISO 16143-1 X46Cr13 (4034-420-00-I)

## Standard Specification for Stainless Steels for General Purposes

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - BS ISO 16143-1 X46Cr13 (4034-420-00-I) Stainless Steels for General Purposes**

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

**Grade Belongs to the Industry - Steel**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.430 - 0.500 |
| Silicon | Si % | 1.000 max. |
| Manganese | Mn % | 1.000 max. |
| Phosphorus | P % | 0.040 max. |
| Sulphur | S % | 0.030 max. |
| Chromium | Cr % | 12.500 - 14.500 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw or Annealing or Quenching + Tempering |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 780 max. |
| Proof Strength in Mpa | - |
| Elongation in % | 12 min. |
| Reduction of Area in % | - |
| Hardness in HBW | 245 max. |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| EN 10088-2 X 46 Cr 13 | UNI | Italy | Steel and Casting |
| EN 10088-1 X46Cr13 | AFNOR NF | France | Steel |
| EN 10088-3 X46Cr13 | AFNOR NF | France | Steel |
| EN 10088-1 X46Cr13 | DIN | Germany | Steel |
| EN 10088-3 X46Cr13 | DIN | Germany | Steel |
| 10088-2 X 46 Cr 13 | EN | European Union | Steel |
| 10088-1 X 46 Cr 13 | EN | European Union | 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.