

## Material: UNI X 30Cr13

### Standard Specification for Martensitic Stainless Steel; Special Alloyed, Corrosion and Heat Resisting, Stainless Steel

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** UNI X 30Cr13 Martensitic Stainless Steel; Special Alloyed, Corrosion and Heat Resisting, Stainless Steel

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

**Grade Belongs to the Industry:** Bar, Wire, Shapes and Forging

| Chemical Composition |      |                 |
|----------------------|------|-----------------|
| Carbon               | C %  | 0.260 - 0.350   |
| Silicon              | Si % | 1.000 max.      |
| Manganese            | Mn % | 1.500 max.      |
| Phosphorus           | P %  | 0.040 max.      |
| Sulphur              | S %  | 0.015 max.      |
| Chromium             | Cr % | 12.000 - 14.000 |
| Iron                 | Fe % | Balance         |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |

| Heat Treatment                     |  |
|------------------------------------|--|
| Annealing or Hardening + Tempering |  |

| Mechanical Properties   |           |
|-------------------------|-----------|
| Tensile Strength in Mpa | 590 min.  |
| Yield Strength in Mpa   | 485 min.  |
| Elongation in %         | 7 min.    |
| Reduction of Area in %  | -         |
| Hardness in BHN         | 45 - 97   |
| Impact in Joule         | 12 J @ RT |

| Cross Reference Table |          |                |                               |
|-----------------------|----------|----------------|-------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry  |
| 1.4028                | EN       | European Union | Forging                       |
| SUS 420J2             | JIS      | Japan          | Forging                       |
| 30CH13                | GOST     | Russia         | Bar, Wire, Shapes and Forging |
| 2304                  | SS       | Sweden         | Bar, Wire, Shapes and Forging |
| 420                   | AISI     | USA            | Bar, Wire, Shapes and Forging |
| 420 S 45              | BS       | British        | Bar, Wire, Shapes and Forging |
| A743 CA20             | ASTM     | USA            | Casting                       |

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