

## Material: UNS J93503

### Standard Specification for Alloy steel casting

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** UNS J93503 Alloy steel casting

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

**Grade Belongs to the Industry:** Casting

| Chemical Composition |      |                 | Heat Treatment          |          |
|----------------------|------|-----------------|-------------------------|----------|
| Carbon               | C %  | 0.200 - 0.500   | As - Cast               |          |
| Silicon              | Si % | 2.000 max.      |                         |          |
| Manganese            | Mn % | 2.000 max.      |                         |          |
| Phosphorus           | P %  | 0.040 max.      |                         |          |
| Sulphur              | S %  | 0.040 max.      |                         |          |
| Chromium             | Cr % | 24.000 - 28.000 |                         |          |
| Nickel               | Ni % | 11.000 - 14.000 |                         |          |
| Molybdenum           | Mo % | 0.500 max.      |                         |          |
| Iron                 | Fe % | Balance         | Mechanical Properties   |          |
| -                    | -    | -               | Tensile Strength in Mpa | 515 min. |
| -                    | -    | -               | Yield Strength in Mpa   | 240 min. |
| -                    | -    | -               | Elongation in %         | 10 min.  |
| -                    | -    | -               | Reduction of Area in %  | -        |
| -                    | -    | -               | Hardness in BHN         | -        |
| -                    | -    | -               | Impact in Joule         | -        |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| 1.4837                | DIN      | Germany        | Casting                      |
| 309C30                | BS       | British        | Casting                      |
| SCH 13 A              | JIS      | Japan          | Casting                      |
| 422936                | CSN      | Czech Republic | Casting                      |
| 40 CH 24 N 12 SL      | GOST     | Russia         | Casting                      |
| 40 CrNiSi 25-12       | MSZ      | Hungary        | Casting                      |
| A297 Grade HH         | ASTM     | USA            | Casting                      |

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