

# Material: UNS J92615

## Standard Specification for Alloy Steel Casting

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** UNS J92615 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 %  | 0.500 max.      | Normalizing or Annealing |          |
| Silicon              | Si % | 1.500 max.      |                          |          |
| Manganese            | Mn % | 1.000 max.      |                          |          |
| Phosphorus           | P %  | 0.040 max.      |                          |          |
| Sulphur              | S %  | 0.040 max.      |                          |          |
| Chromium             | Cr % | 26.000 - 30.000 |                          |          |
| Nickel               | Ni % | 4.000 max.      |                          |          |
| Iron                 | Fe % | Balance         |                          |          |
| -                    | -    | -               | Mechanical Properties    |          |
| -                    | -    | -               | Tensile Strength in Mpa  | 380 min. |
| -                    | -    | -               | Yield Strength in Mpa    | -        |
| -                    | -    | -               | Elongation in %          | -        |
| -                    | -    | -               | Reduction of Area in %   | -        |
| -                    | -    | -               | Hardness in BHN          | -        |
| -                    | -    | -               | Impact in Joule          | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| G X 40 Cr 28          | UNI      | Italy   | Casting                      |
| G X 35 CrNi 28-05     | UNI      | Italy   | Casting                      |
| G X 40 CrNi 27-4      | DIN      | Germany | Casting                      |
| 1.4340                | DIN      | Germany | Casting                      |
| A 743 CC50            | ASTM     | USA     | Casting                      |
| 3444 Grade 9          | IS       | India   | Casting                      |
| 3444 Grade 13         | IS       | India   | Casting                      |

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