

# Material: PN LH 18 N 9

## Standard Specification for Corrosion-Resisting Cast Steel

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** PN LH 18 N 9 Corrosion-Resisting Cast Steel

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

**Grade Belongs to the Industry:** Casting

| Chemical Composition |      |                 | Heat Treatment          |           |
|----------------------|------|-----------------|-------------------------|-----------|
| Carbon               | C %  | 0.150 max.      | Solution Annealing      |           |
| Silicon              | Si % | 2.000 max.      |                         |           |
| Manganese            | Mn % | 0.200 max.      |                         |           |
| Phosphorus           | P %  | 0.035 max.      |                         |           |
| Sulphur              | S %  | 0.035 max.      |                         |           |
| Chromium             | Cr % | 17.000 - 19.000 |                         |           |
| Nickel               | Ni % | 8.000 - 11.000  |                         |           |
| Iron                 | Fe % | Balance         |                         |           |
| -                    | -    | -               | Mechanical Properties   |           |
| -                    | -    | -               | Tensile Strength in Mpa | 440 - 640 |
| -                    | -    | -               | Yield Strength in Mpa   | 180 min.  |
| -                    | -    | -               | Elongation in %         | 30 min.   |
| -                    | -    | -               | Reduction of Area in %  | 40 min.   |
| -                    | -    | -               | Hardness in BHN         | 130 - 190 |
| -                    | -    | -               | Impact in Joule         | -         |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| 302 C 25              | BS       | British | Casting                      |
| SCS 12                | JIS      | Japan   | Casting                      |
| 10 ch 18 N9L          | GOST     | Russia  | Casting                      |
| Z 10 Cn 18.9M         | AFNOR NF | France  | Casting                      |
| F.8411                | UNE      | Spain   | Casting                      |
| 302 C 25              | BS       | British | Casting                      |
| A743 CF16F            | ASTM     | USA     | Casting                      |

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