

## Material: JIS SCH 23

### Standard Specification for Heat-Resistant Cast Steels and Alloys for General Applications

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** JIS SCH 23 Heat-Resistant Cast Steels and Alloys for General Applications

**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 - 0.600   | As - Cast               |          |
| Silicon              | Si % | 2.000 max.      |                         |          |
| Manganese            | Mn % | 2.000 max.      |                         |          |
| Phosphorus           | P %  | 0.040 max.      |                         |          |
| Sulphur              | S %  | 0.040 max.      |                         |          |
| Chromium             | Cr % | 28.000 - 32.000 |                         |          |
| Molybdenum           | Mo % | 0.500 max.      |                         |          |
| Nickel               | Ni % | 18.000 - 22.000 |                         |          |
| Iron                 | Fe % | Balance         | Mechanical Properties   |          |
| -                    | -    | -               | Tensile Strength in Mpa | 450 min. |
| -                    | -    | -               | Yield Strength in Mpa   | 245 min. |
| -                    | -    | -               | Elongation in %         | 8 min.   |
| -                    | -    | -               | Reduction of Area in %  | -        |
| -                    | -    | -               | Hardness in BHN         | -        |
| -                    | -    | -               | Impact in Joule         | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| N08604                | UNS      | USA     | Casting                      |
| A608 Grade HL 30      | ASTM     | USA     | Casting                      |
| A608 Grade HL 40      | ASTM     | USA     | Casting                      |
| N08613                | UNS      | USA     | Casting                      |
| N08614                | UNS      | USA     | Casting                      |
| A297 Grade HL         | ASTM     | USA     | Casting                      |
| IS 4522 Grade 10      | IS       | India   | Casting                      |

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