

# Material: UNI G X 55 NiCr 66-17

## Standard Specification for Heat Stainless Steel and Alloy Sand Castings

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** UNI G X 55 NiCr 66-17 Heat Stainless Steel and Alloy Sand Castings

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

**Grade Belongs to the Industry:** Casting

| Chemical Composition |      |                 |
|----------------------|------|-----------------|
| Carbon               | C %  | 0.350 - 0.750   |
| Silicon              | Si % | 2.500 max.      |
| Manganese            | Mn % | 2.000 max.      |
| Phosphorus           | P %  | 0.040 max.      |
| Sulphur              | S %  | 0.035 max.      |
| Chromium             | Cr % | 15.000 - 19.000 |
| Molybdenum           | Mo % | 0.500 max.      |
| Nickel               | Ni % | 64.000 - 68.000 |
| Iron                 | Fe % | Balance         |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |

| Heat Treatment |
|----------------|
| As - Cast      |

| Mechanical Properties   |          |
|-------------------------|----------|
| Tensile Strength in Mpa | 410 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 |
| A608 Grade HX 50      | ASTM     | USA     | Casting                      |
| N06006                | UNS      | USA     | Casting                      |
| N06050                | UNS      | USA     | Casting                      |
| A297 Grade HX         | ASTM     | USA     | Casting                      |
| IS 4522 Grade 14      | IS       | India   | Casting                      |
| 13505 Grade HX        | IS       | India   | Casting                      |
| -                     | -        | -       | -                            |

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