

Material: IS 3444 Grade 20

Standard Specification for Corrosion Resistant High Alloy Steel And Nickel Base Castings for General Applications

Group: Non-Ferrous Nickel Alloys

Sub Group: IS 3444 Grade 20 Corrosion Resistant High Alloy Steel And Nickel Base Castings 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 % | 0.400 max. | |
| Silicon | Si % | 3.000 max. | |
| Manganese | Mn % | 1.500 max. | |
| Phosphorus | P % | 0.030 max. | |
| Sulphur | S % | 0.030 max. | |
| Chromium | Cr % | 14.000 - 17.000 | |
| Iron | Fe % | 11.000 max. | |
| Nickel | Ni % | Balance | |
| - | - | - | As-Cast or Annealing or Age Hardning |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| - | - | - | |
| - | - | - | |

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 480 min. |
| Yield Strength in Mpa | 190 min. |
| Elongation in % | 27 min. |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| C-NiCr15Fe | AFNOR NF | France | Pump, Valve and Fitting |
| NC16Fe11-M | AFNOR NF | France | Pump, Valve and Fitting |
| NC6040 | AFNOR NF | France | Pump, Valve and Fitting |
| 10774 Grade 12 | IS | India | Casting |
| NCrFC | JIS | Japan | Casting |
| A 743 Grade CY-40 | ASTM | USA | Casting |
| A 744 Grade CY-40 | ASTM | USA | Casting |

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India