

Material: AFNOR NF Z 10 CN 18.9 M

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: AFNOR NF Z 10 CN 18.9 M Steel Castings for General Engineering Purposes

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|--|----------|
| Carbon | C % | 0.120 max. | As Cast or Annealing or Normalizing or Hardening and Tempering | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 2.000 max. | | |
| Phosphorus | P % | 0.045 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 17.000 - 20.000 | | |
| Nickel | Ni % | 8.000 - 11.000 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 490 min. |
| - | - | - | Yield Strength in Mpa | 196 min. |
| - | - | - | Elongation in % | 35 min. |
| - | - | - | Reduction of Area in % | 50 min. |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 302C25 | BS | British | Casting |
| 2074/H5B | AS | Australia | Casting |
| 2074/H5BM | AS | Australia | Casting |
| 1H18N9 | PN | Poland | Casting |
| 17 241 | CSN | Czech Republic | Casting |
| C47H | ISO | International | Casting |
| 10H18N9L | GOST | Russia | Casting |

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