

Material: AFNOR NF Z 2 CN 18-10 M

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: AFNOR NF Z 2 CN 18-10 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 | | |
|----------------------|------|-----------------|
| Carbon | C % | 0.030 max. |
| Silicon | Si % | 1.500 max. |
| Manganese | Mn % | 1.500 max. |
| Phosphorus | P % | 0.040 max. |
| Sulphur | S % | 0.030 max. |
| Chromium | Cr % | 17.000 - 21.000 |
| Nickel | Ni % | 8.000 - 12.000 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|--|
| As Cast or Annealing or Normalizing or Hardening and Tempering |

| Mechanical Properties | |
|-------------------------|-----------|
| Tensile Strength in Mpa | 400 - 600 |
| Yield Strength in Mpa | 200 min. |
| Elongation in % | 35 min. |
| Reduction of Area in % | - |
| Hardness in BHN | 130 - 160 |
| Impact in Joule | 80 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|-----------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 304C12 | BS | British | Casting |
| 304 C 12 LT 196 | BS | British | Casting |
| 1.4309 | ONORM | Australia | Casting |
| 1.4309 | UNE | Spain | Casting |
| 1.4309 | MSZ | Hungary | Casting |
| 1.4309 | SS | Sweden | Casting |
| 1.4309 | UNI | Italy | Casting |

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