

Material: AFNOR NF 10 CrMo 9-10

Standard Specification for Flat Products for Pressure Purpose (Elevated Temperatures)

Group: Ferrous Mild Steel Alloys

Sub Group: AFNOR NF 10 CrMo 9-10 Flat Products for Pressure Purpose (Elevated Temperatures)

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

Grade Belongs to the Industry: Steel

| Chemical Composition | | |
|----------------------|------|---------------|
| Carbon | C % | 0.800 - 0.140 |
| Silicon | Si % | 0.500 max. |
| Manganese | Mn % | 0.400 - 0.800 |
| Phosphorus | P % | 0.030 max. |
| Sulphur | S % | 0.025 max. |
| Chromium | Cr % | 2.000 - 2.500 |
| Molybdenum | Mo % | 0.900 - 1.100 |
| Nickel | Ni % | 0.500 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| Normalizing or Annealing or Hardening + Tempering |

| Mechanical Properties | |
|-------------------------|-----------|
| Tensile Strength in Mpa | 450 - 630 |
| Yield Strength in Mpa | 250 min. |
| Elongation in % | 17 min. |
| Reduction of Area in % | - |
| Hardness in BHN | - |
| Impact in Joule | 27 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| SA-217 WC9 | ASME | USA | Casting |
| J21890 | UNS | USA | Casting |
| 10 CrMo 9-10 | DIN | Germany | Forging |
| 10 CrMo 9-10 | EN | European Union | Casting |
| 10 CrMo 9-10 | UNI | Italy | Casting |
| 622 | BS | British | British |
| A217 Grade WC9 | ASTM | USA | Casting |

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