

Material: UNS J22090

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J22090 Alloy Steel Casting

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|------|---------------|
| Carbon | C % | 0.200 max. |
| Silicon | Si % | 0.600 max. |
| Manganese | Mn % | 0.500 - 0.800 |
| Phosphorus | P % | 0.350 max. |
| Sulphur | S % | 0.030 max. |
| Chromium | Cr % | 2.000 - 2.750 |
| Molybdenum | Mo % | 0.900 - 1.200 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 585 min. |
| Yield Strength in Mpa | 380 min. |
| Elongation in % | 20 min. |
| Reduction of Area in % | 35 min. |
| Hardness in BHN | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 1.7375 | DIN | Germany | Tube |
| 1.7380 | EN | European Union | Bar, Plate and Forging |
| 10 CD 9-10 | AFNOR NF | France | Plate |
| 10 CrMo 10 | STAS | Romania | Tube |
| 10 CrMo 9-10 | MSZ | Hungary | Bar, Tube and Forging |
| 10 CrMo 9-10 | BS | British | Steel |
| A356 10 | ASTM | USA | Casting |

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