



Material - AFANOR NF Z 4 CND 19.13 M

Standard Specification for Steel Casting

Group - Ferrous Stainless Steel Alloys

Sub Group - AFANOR NF Z 4 CND 19.13 M Steel Casting

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|-------------------------|----------|
| Carbon | C % | 0.050 max. | Solution Annealing | |
| Silicon | Si % | 1.500 max. | | |
| Manganese | Mn % | 1.500 max. | | |
| Chromium | Cr % | 17.500 - 20.400 | | |
| Molybdenum | Mo % | 3.000 - 3.5000 | | |
| Chromium | Cr % | 17.500 - 20.500 | | |
| Nickel | Ni % | 12.000 - 15.000 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 550 min. |
| - | - | - | Yield Strength in Mpa | 260 min. |
| - | - | - | Elongation in % | 35 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A351 CK3MCuN | ASTM | USA | Casting |
| SA-351 CK3MCuN | ASME | USA | Casting |
| 317 C 12 | BS | British | Casting |
| 422940 | CSN | Czech Republic | Casting |
| J92810 | UNS | USA | Casting |
| J93254 | UNS | USA | Casting |
| A351 CE20 | ASTM | USA | Casting |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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