

Material: UNS R30404

Standard Specification for Cobalt-Based alloy

Group: Non-Ferrous Cobalt Alloys

Sub Group: UNS R30404 Cobalt-Based alloy

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|-------------------------|-------------|
| Carbon | C % | 0.600 - 1.100 | As-Cast or Annealing | |
| Iron | Fe % | 3.000 max. | | |
| Manganese | Mn % | 1.000 max. | | |
| Nickel | Ni % | 3.000 max. | | |
| Silicon | Si % | 1.500 max. | | |
| Chromium | Cr % | 28.000 - 32.000 | | |
| Tungsten | W % | 12.000 - 16.000 | | |
| Cobalt | Co % | Balance | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 775 - 937.7 |
| - | - | - | Yield Strength in Mpa | 550 min. |
| - | - | - | Elongation in % | 1 max. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in HRC | 45 - 49 |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| Stellite 4 | Gravity | India | Casting |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

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