

Material: UNS R30400

Standard Specification for Engine poppet valve information report

Group: Non-Ferrous Cobalt Alloys

Sub Group: UNS R30400 Engine poppet valve information report

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

Grade Belongs to the Industry: Valve

| Chemical Composition | | | Heat Treatment | |
|----------------------|-----------|-----------------|--------------------------------------|---------|
| Carbon | C % | 0.080 max. | As-Cast or Annealing or Age Hardning | |
| Silicon | Si % | 2.200 - 3.000 | | |
| Chromium | Cr % | 7.500 - 10.000 | | |
| Molybdenum | Mo % | 27.000 - 29.000 | | |
| Cobalt | Co % | 61.000 - 63.000 | | |
| Fe + Ni | Fe% + Ni% | 3.000 max. | | |
| - | - | - | | |
| - | - | - | Mechanical Properties | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| | | | Tensile Strength in Mpa | 689.5 |
| | | | Yield Strength in Mpa | - |
| | | | Elongation in % | 1 min. |
| | | | Reduction of Area in % | - |
| | | | Hardness in HRC | 51 - 58 |
| | | | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| Tribaloy T-400 | SAE | USA | Valve |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

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