



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM F 2527 R30003

Standard Specification for Seamless Drawn Cobalt Alloy Small Diameter Tubing for Surgical Implants

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM F 2527 R30003 Seamless Drawn Cobalt Alloy Small Diameter Tubing for Surgical Implants

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | | | |
|----------------------|------|-----------------|--|----------|-----------------------|--|
| Carbon | C % | 0.150 max. | As-Cast or Annealing | | | |
| Chromium | Cr % | 19.000 - 21.000 | | | | |
| Molybdenum | Mo % | 6.000 - 8.000 | | | | |
| Nickel | Ni % | 14.000 - 18.000 | | | | |
| Cobalt | Co % | 39.000 - 41.000 | | | | |
| Silicon | Si % | 1.200 max. | | | | |
| Manganese | Mn % | 1.500 - 2.500 | | | | |
| Sulphur | S % | 0.015 max. | | | | |
| Phosphorus | P % | 0.015 max. | | | | |
| Beryllium | Be % | 0.100 max. | | | | |
| Iron | Fe % | Balance | <th colspan="2">Mechanical Properties</th> | | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 850 min. | | |
| - | - | - | Yield Strength in Mpa | 450 min. | | |
| - | - | - | Elongation in % | 1 min. | | |
| - | - | - | Reduction of Area in % | - | | |
| - | - | - | Hardness in BHN | - | | |
| - | - | - | Impact in Joule | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| F1058 Grade 1 | ASTM | USA | Wire and Strip |
| R30008 | UNS | USA | Casting |
| 7402-4 | JIS | Japan | 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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS