



Material - IS 7225 Grade 1

Standard Specification for Dental Cobalt-Chromium Casting Alloy

Group - Non-Ferrous Cobalt Alloys

Sub Group - IS 7225 Grade 1 Dental Cobalt-Chromium Casting 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 % | 0.200 - 0.400 | As-Cast or Annealing | |
| Silicon | Si % | 0.550 max. | | |
| Manganese | Mn % | 0.160 max. | | |
| Chromium | Cr % | 26.200 max. | | |
| Molybdenum | Mo % | 5.000 max. | | |
| Copper | Cu % | 0.200 max. | | |
| Iron | Fe % | 1.000 max. | | |
| Nickel | Ni % | 2.300 max. | | |
| Tungsten | W % | 1.200 max. | | |
| Cobalt | Co % | 62.600 min. | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa - Yield Strength in Mpa 440 min. Elongation in % 3 min. Reduction of Area in % - Hardness in BHN - Impact in Joule - | |
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| Cross Reference Table | | | |
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| Material | Standard | Country | Grade Belong to the Industry |
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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.