



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - UNS R30006

### Standard Specification for Cobalt-Based alloy

Group - Non-Ferrous Cobalt Alloys

Sub Group - UNS R30006 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 %	0.900 - 1.400	As-Cast or Annealing	
Chromium	Cr %	26.000 - 32.000		
Tungsten	W %	3.500 - 5.500		
Silicon	Si %	1.500 max.		
Iron	Fe %	6.000 max.		
Manganese	Mn %	1.000 max.		
Molybdenum	Mo %	1.500 max.		
Nickel	Ni %	5.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Cobalt	Co %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   793 min. Yield Strength in Mpa   662 min. Elongation in %   3 min. Reduction of Area in %   3 min. Hardness in HRC   41 min. Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Stellite 6	SAE	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](mailto: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**