

Standard Specification for Dental Cobalt-Chromium Casting Alloy

Sub Group: *IS 7225 Grade 4 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 %	0.600 max.		
Iron	Fe %	4.000 max.		
Chromium	Cr %	24.000 max.		
Molybdenum	Mo %	5.100 max.		
Cobalt	Co %	66.000 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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Customer Care: +91-99090 45075 Email: info@icastllp.com