

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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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