

Material: IS 7225 Grade 5

Standard Specification for Dental Cobalt-Chromium Casting Alloy

Group: Non-Ferrous Cobalt Alloys

Sub Group: IS 7225 Grade 5 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 %	0.200 max.		
Manganese	Mn %	0.400 max.		
Chromium	Cr %	27.300 max.		
Iron	Fe %	0.050 max.		
Tungsten	W %	5.000 max.		
Cobalt	Co %	66.700 min.		
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-	-	-	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			
Material	Standard	Country	Grade Belong to the Industry
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