

Material: IS 7225 Grade 9

Standard Specification for Dental Cobalt-Chromium Casting Alloy

Group: Non-Ferrous Cobalt Alloys

Sub Group: IS 7225 Grade 9 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		
Carbon	C %	0.400 max.
Silicon	Si %	0.600 max.
Manganese	Mn %	0.600 max.
Chromium	Cr %	23.000 max.
Tungsten	W %	5.000 max.
Iron	Fe %	1.000 max.
Nickel	Ni %	2.000 max.
Cobalt	Co %	67.400 min.
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing

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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