



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM F 75 R30075

Standard Specification for Cobalt-28 Chromium-6 Molybdenum Casting Alloy and Cast Products for Surgical Implants

Group - Non-Ferrous Cobalt Alloys

Sub Group - ASTM F 75 R30075 Cobalt-28 Chromium-6 Molybdenum Casting Alloy and Cast Products for Surgical Implants

Application - Intended for Valve, Pump, General Engineering, Automotive, Medical and other Industries

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.350 max.	As-Cast or Annealing	
Chromium	Cr %	27.000 - 30.000		
Molybdenum	Mo %	5.000 - 7.000		
Nickel	Ni %	0.500 max.		
Iron	Fe %	0.750 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Tungsten	W %	0.200 max.		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.010 max.		
Nitrogen	N %	0.250 max.	Mechanical Properties	
Aluminium	Al %	0.100 max.	Tensile Strength in Mpa	655 min.
Boron	B %	0.010 max.	Yield Strength in Mpa	450 min.
Titanium	Ti %	0.100 max.	Elongation in %	8 min.
Cobalt	Co %	Balance	Reduction of Area in %	-
			Hardness in HRC	25 - 35
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
R30075	UNS	USA	Casting
7402-1	JIS	Japan	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

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.

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