



## Material - ASTM F1537 Alloy 3

### Standard Specification for Cobalt-Based alloy

Group - Non-Ferrous Cobalt Alloys

Sub Group - ASTM F1537 Alloy 3 Cobalt-Based 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 %	0.140 max.	As-Cast or Annealing	
Chromium	Cr %	26.000 - 30.000		
Molybdenum	Mo %	5.000 - 7.000		
Nickel	Ni %	1.000 max.		
Iron	Fe %	0.750 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Nitrogen	N %	0.250 max.		
Aluminium	Al %	0.300 - 1.000		
Lanthanum	La %	0.030 - 0.200		
Cobalt	Co %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa      897 min. Yield Strength in Mpa      517 min. Elongation in %      12 min. Reduction of Area in %      12 min. Hardness in HRC      25 - 35 min. Impact in Joule      -	
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-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
R31539	UNS	USA	Casting
F799 Alloy 3	ASTM	USA	Casting
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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