



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME ERCCoCr-E Standard Specification for Cobalt-Based alloy

Group - Non-Ferrous Cobalt Alloys

Sub Group - ASME ERCCoCr-E 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 %	0.200 - 0.300	As-Cast or Annealing	
Silicon	Si %	1.000 max.		
Chromium	Cr %	25.000 - 29.000		
Nickel	Ni %	1.750 - 3.750		
Molybdenum	Mo %	5.000 - 6.000		
Iron	Fe %	3.000 max.		
Boron	B %	0.007 max.		
Phosphorus	P %	0.040 max.		
Manganese	Mn %	1.000 max.		
Sulphur	S %	0.040 max.		
Cobalt	Co %	Balance	Mechanical Properties Tensile Strength in Mpa - Yield Strength in Mpa - Elongation in % - Reduction of Area in % - Hardness in HRC 34 min. Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Stellite 21	Gravity	India	Casting
5385	SAE	USA	Casting
5819	SAE	USA	Wire
ERCoCr-E	ASME	USA	Casting
R30021	UNS	USA	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.

ONE STOP SOLUTION FOR METAL PARTS