

Material: ASME SB-818 R31233

Standard Specification for Cobalt-Chromium-Nickel-Molybdenum-Tungsten Alloy Plate, Sheet and Strip

Group: Non-Ferrous Nickel Alloys

Sub Group: ASME SB-818 R31233 Cobalt-Chromium-Nickel-Molybdenum-Tungsten Alloy Plate, Sheet and Strip

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

Grade Belongs to the Industry: Plate, Sheet and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.020 - 0.100	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.050 - 1.000		
Manganese	Mn %	0.100 - 1.500		
Chromium	Cr %	23.500 - 27.500		
Sulphur	S %	0.020 max.		
Molybdenum	Mo %	4.000 - 6.000		
Phosphorus	P %	0.030 max.		
Boron	B %	0.015 max.		
Iron	Fe %	1.000 - 5.000		
Nickel	Ni %	7.000 - 11.000	Mechanical Properties	
Nitrogen	N %	0.030 - 0.120	Tensile Strength in Mpa	896 min.
Tungsten	W %	1.000 - 3.000	Yield Strength in Mpa	379 min.
Cobalt	Co %	Balance	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B 815 R31233	ASTM	USA	Rod
B 818 R31233	ASTM	USA	Plate, Sheet and Strip
SB-815 R31233	ASME	USA	Rod
R31233	UNS	USA	Rod
-	-	-	-
-	-	-	-
-	-	-	-

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com