

Material: SAE Waspaloy

Standard Specification for Nickel Alloy, Corrosion and Heat-Resistant, Bars, Forgings and Rings

Group: Non-Ferrous Nickel Alloys

Sub Group: SAE Waspaloy Nickel Alloy, Corrosion and Heat-Resistant, Bars, Forgings and Rings

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

Grade Belongs to the Industry: Bar, Forging and Ring

Chemical Composition			Heat Treatment	
Carbon	C %	0.020 - 0.100	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.150 max.		
Manganese	Mn %	0.100 max.		
Chromium	Cr %	18.000 - 21.000		
Sulphur	S %	0.015 max.		
Molybdenum	Mo %	3.500 - 5.000		
Phosphorus	P %	0.015 max.		
Cobalt	Co %	12.000 - 15.000		
Copper	Cu %	0.100 max.	Mechanical Properties	
Aluminium	Al %	1.200 - 1.600	Tensile Strength in Mpa	1000 min.
Boron	B %	0.003 - 0.010	Yield Strength in Mpa	552 min.
Titanium	Ti %	2.750 - 3.250	Elongation in %	15 min.
Zirconium	Zr %	0.020 - 0.080	Reduction of Area in %	15 min.
Iron	Fe %	2.000 max.	Hardness in HRC	27 min.
Nickel	Ni %	Balance	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
WASPALLOY	Gravity	India	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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