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		
Carbon	C %	0.020 - 0.100
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.
Aluminium	Al %	1.200 - 1.600
Boron	B %	0.003 - 0.010
Titanium	Ti %	2.750 - 3.250
Zirconium	Zr %	0.020 - 0.080
Iron	Fe %	2.000 max.
Nickel	Ni %	Balance

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	1000 min.
Yield Strength in Mpa	552 min.
Elongation in %	15 min.
Reduction of Area in %	15 min.
Hardness in HRC	27 min.
Impact in Joule	-

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

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