

Material: ASTM A 494 CY5SnBiM

Standard Specification for Castings, Nickel and Nickel Alloy

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM A 494 CY5SnBiM Castings, Nickel and Nickel Alloy

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	11.000 - 14.000		
Bismuth	Bi %	3.000 - 5.000		
Molybdenum	Mo %	2.000 - 3.500		
Tin	Sn %	3.000 - 5.000	Mechanical Properties	
Iron	Fe %	2.000 max.	Tensile Strength in Mpa	330 min.
Nickel	Ni %	Balance	Yield Strength in Mpa	230 min.
-	-	-	Elongation in %	9 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	140 - 150
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-494 CYSSnBiM	ASME	USA	Casting
N26055	UNS	USA	Casting
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