

Material: AMS 5357

Standard Specification for Steel, Corrosion Resistant, Investment Casting

Group: Ferrous Stainless Steel Alloys

Sub Group: AMS 5357 Steel, Corrosion Resistant, Investment Casting

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.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.500 - 1.000		
Manganese	Mn %	0.600 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	14.000 - 15.500		
Nickel	Ni %	4.200 - 5.000		
Copper	Cu %	2.500 - 3.200		
Nitrogen	N %	0.050 max.		
Tantalum	Ta %	0.050 max.		
Niobium	Nb %	0.150 - 0.300	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	862 min.
-	-	-	Yield Strength in Mpa	758 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	28-36
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J92110	UNS	USA	Casting
UNS J92130	UNS	USA	Casting
SA-747 CB7Cu-2	ASME	USA	Casting
5356	AMS	USA	Casting
AMS 5346	SAE	USA	Casting
5400	AMS	USA	Casting
A747 CB7CU-2	ASTM	USA	Casting

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