

# Material: AMS 5358

## Standard Specification for Steel Castings, Investment, Corrosion Resistant 18Cr - 9Ni, Solution Heat Treated

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** AMS 5358 Steel Castings, Investment, Corrosion Resistant 18Cr - 9Ni, Solution Heat Treated

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

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.250 max.	Solution Annealing	
Silicon	Si %	2.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	8.000 - 10.000		
Molybdenum	Mo %	0.750 max.		
Copper	Cu %	0.750 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	485 min.
			Yield Strength in Mpa	205 min.
			Elongation in %	30 min.
			Reduction of Area in %	-
			Hardness in BHN	174 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CF20	ASTM	USA	Casting
J92602	UNS	USA	Casting
422932	CSN	Czech Republic	Casting
G X 25 CrNiSi 18-9	DIN	Germany	Casting
G X 16 CrNi 20-10	UNI	Italy	Casting
J92502	UNS	USA	Casting
14825	DIN	Germany	Casting

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