

# Material: CSN 422932

## Standard Specification for Alloy Steel Casting

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** CSM 422932 Alloy Steel Casting

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

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.300	Solution Annealing	
Silicon	Si %	1.000 - 2.000		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	17.000 - 20.000		
Nickel	Ni %	8.000 - 11.000		
P + S	P% + S%	0.750 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	441 - 637
-	-	-	Yield Strength in Mpa	206 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	130 - 190
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CF20	ASTM	USA	Casting
5358	AMS	USA	Casting
J92602	UNS	USA	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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