

# Material: UNS J93001

## Standard Specification for Alloy Steel Casting

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** UNS J93001 Alloy Steel Casting

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.120 max.
Silicon	Si %	2.000 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	20.000 - 23.000
Nickel	Ni %	10.000 - 13.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	485 min.
Yield Strength in Mpa	205 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CG12	ASTM	USA	Casting
G X 5 CrNi 22-10	DIN	Germany	Casting
1.4947	DIN	Germany	Casting
3444	IS	India	Casting
-	-	-	-
-	-	-	-
-	-	-	-

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