

# Material: UNS J93005

## Standard Specification for Alloy steel casting

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** UNS J93005 Alloy steel casting

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.500 max.
Silicon	Si %	2.000 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	26.000 - 30.000
Nickel	Ni %	4.000 - 7.000
Molybdenum	Mo %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As - Cast

Mechanical Properties	
Tensile Strength in Mpa	515 min.
Yield Strength in Mpa	240 min.
Elongation in %	8 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
392 G X 30 CrNi 27-5	SFS	Finland	Casting
A297 Grade HC	ASTM	USA	Casting
G X 35 Cr 28	UNI	Italy	Casting
40 CrNiSi 25-4	MSZ	Hungary	Casting
G X 40 CrNiSi 27-4	DIN	Germany	Casting
1.4823	DIN	Germany	Casting
A297 Grade HD	ASTM	USA	Casting

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