

Material: AS H6A

Standard Specification for Steel Casting

Group: Ferrous Stainless Steel Alloys

Sub Group: AS H6A Steel Casting

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.080 max.
Silicon	Si %	1.500 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	18.000 - 20.000
Nickel	Ni %	10.000 min.
Molybdenum	Mo %	3.000 - 4.000
Copper	Cu %	0.500 - 1.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Heating uniformly to a temperature within the range 1000 to 1150°C, followed by rapid cooling in air or water

Mechanical Properties	
Tensile Strength in Mpa	480 min.
Yield Strength in Mpa	200 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J92999	UNS	USA	Casting
1.4412	EN	European Union	Casting
SA-351 CG3M	ASME	USA	Casting
317 C 12	BS	British	Casting
AM X 7 CrNiMo 20-11	UNE	Spain	Casting
A743 CG3M	ASTM	USA	Casting
A351 CG3M	ASTM	USA	Casting

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