

Material: UNS J12084

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J12084 Alloy Steel Casting

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.200 max.
Silicon	Si %	0.800 max.
Manganese	Mn %	0.600 - 1.000
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	0.400 - 0.800
Nickel	Ni %	0.700 - 1.000
Molybdenum	Mo %	0.400 - 0.600
Copper	Cu %	0.150 - 0.500
Vanadium	V %	0.030 - 0.100
Tungsten	W %	0.100 max.
Boron	B %	0.002 - 0.006
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	795 min.
Yield Strength in Mpa	690 min.
Elongation in %	15 min.
Reduction of Area in %	30 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.8719	DIN	Germany	Steel
1.892	EN	European Union	Steel
6386 Type 12	AMS	USA	Steel
K11576	UNS	USA	Casting
SA-487 Grade 7A	ASME	USA	Casting
SA-592 Grade F	ASME	USA	Forging
A487 7A	ASTM	USA	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com