

Material: UNS J22090

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J22090 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 %	0.600 max.
Manganese	Mn %	0.500 - 0.800
Phosphorus	P %	0.035 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	2.000 - 2.750
Molybdenum	Mo %	0.900 - 1.200
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	585 - 795
Yield Strength in Mpa	380 min.
Elongation in %	20 min.
Reduction of Area in %	35 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.7379	DIN	Germany	Casting
1.7383	EN	European Union	Forging
10 CD 9.10	AFNOR NF	France	Forging
622.0000	BS	British	Bar
GS 18 CrMo 9 10	ONORM	Australia	Steel
8 CrMoNiNb 9-10	DIN	Germany	Steel
A757 D1N1 D1Q1	ASTM	USA	Casting

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