

Material: DIN G X 12 CrMo 10-1

Standard Specification for Steel Castings for Petroleum and Natural Gas Plants

Group: Ferrous Mild Steel Alloys

Sub Group: DIN G X 12 CrMo 10-1 Steel Castings for Petroleum and Natural Gas Plants

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.080 - 0.150
Silicon	Si %	0.300 - 0.500
Manganese	Mn %	0.500 - 0.800
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	9.000 - 10.000
Molybdenum	Mo %	1.100 - 1.400
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	640 - 840
Yield Strength in Mpa	410 min.
Elongation in %	18 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-217 Grade C12	ASME	USA	Casting
A426 Grade CP9	ASTM	USA	Casting
J82090	UNS	USA	Casting
1.7389	DIN	Germany	Casting
A217 Grade C12	ASTM	USA	Casting
A217 Grade C12A	ASTM	USA	Casting
A217 J84090	ASTM	USA	Casting

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