

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			Heat Treatment	
Carbon	C %	0.080 - 0.150		
Silicon	Si %	0.300 - 0.500		
Manganese	Mn %	0.500 - 0.800	Normalising or Annealing or Hardening + Tempering	
Phosphorus	Р%	0.035 max.		ardening + Tempering
Sulphur	S %	0.035 max.		
Chromium	Cr %	9.000 - 10.000		
Molybdenum	Mo %	1.100 - 1.400		
Iron	Fe %	Balance		
-	-	-	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	-
-	-	-	Impac <mark>t in Joule</mark>	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	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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