

## Material: DIN G X 12 CrMo 5

### Standard Specification for Steel Castings for Petroleum and Natural Gas Plants

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** DIN G X 12 CrMo 5 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	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.300 - 0.500		
Manganese	Mn %	0.400 - 0.700		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	4.500 - 5.500		
Molybdenum	Mo %	0.450 - 0.550		
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	-
-	-	-	Impact in Joule	34 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A426 Grade CP5	ASTM	USA	Casting
G S 12 CrMo 19-5	DIN	Germany	Casting
G X 15 CrMo 5	EN	European Union	Casting
SCPH 61	JIS	Japan	Casting
1.7363	DIN	Germany	Casting
A426 Grade CP5	ASTM	USA	Casting
A217 Grade C5	ASTM	USA	Casting

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)