

Material: DIN G S 12 CrMo 19-5

Standard Specification for Steel Castings for Petroleum and Natural gas plants

Group: Ferrous Mild Steel Alloys

Sub Group: DIN G S 12 CrMo 19-5 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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A426 Grade CP5	ASTM	USA	Casting
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G X 15 CrMo 5	EN	European Union	Casting
SCPH 61	JIS	Japan	Casting
1.7363	DIN	Germany	Casting
G S 17 CrMo 5-5	DIN	Germany	Casting
A217 Grade C5	ASTM	USA	Casting

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