

## Material: JIS SCPH 61

### Standard Specification for Low Alloy Steel Castings for High Temperature and High Pressure Service

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** JIS SCPH 61 Low Alloy Steel Castings for High Temperature and High Pressure Service

**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 %	0.750 max.
Manganese	Mn %	0.500 - 0.800
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	4.000 - 6.500
Molybdenum	Mo %	0.450 - 0.650
Nickel	Ni %	0.500 max.
Tungsten	W %	0.100 max.
Copper	Cu %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Normalizing or Annealing or Hardening + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	620 min.
Yield Strength in Mpa	410 min.
Elongation in %	17 min.
Reduction of Area in %	35 min.
Hardness in BHN	-
Impact in Joule	-

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
A426 Grade CP5	ASTM	USA	Casting
1.7363	DIN	Germany	Casting
G X 12 CrMo 5	DIN	Germany	Casting
A217 Grade C5	ASTM	USA	Casting

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