

Material: ASTM A541 Grade 11 Class 4

Standard Specification for Quenched and Tempered Carbon and Alloy Steel Forgings for Pressure Vessel Components

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A541 Grade 11 Class 4 Quenched and Tempered Carbon and Alloy Steel Forgings for Pressure Vessel Components

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

Grade Belongs to the Industry: Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 - 0.200	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.500 - 1.000		
Manganese	Mn %	0.300 - 0.800		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	1.000 - 1.500		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.450 - 0.650		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	550 - 725
-	-	-	Yield Strength in Mpa	345 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	38 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	20 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
369 G-17 CrMo 5-5	SFS	Finland	Casting
621	BS	British	Plate
J12073	UNS	USA	Casting
G 17 CrMo 5-5	UNI	Italy	Casting
A217 WC11	ASTM	USA	Casting
A217 WC6	ASTM	USA	Casting
A356 6	ASTM	USA	Casting

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