

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		
Silicon	Si %	0.500 - 1.000		
Manganese	Mn %	0.300 - 0.800	Normalising or Annealing or Hardening + Tempering	
Phosphorus	Р%	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.	Mechanical Properties	
Iron	Fe %	Balance	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	-
-	-	-	Impac <mark>t in Joule</mark>	20 J @ RT

Cross Reference Table				
Material	Standard	Country	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	

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS