



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - DIN G S 17 CrMo 5-5

**Standard Specification for Steel Castings for Pressure Purposes; Steel Grades for Use at Room Temperature and Elevated Temperatures**

**Group - Ferrous Mild Steel Alloys**

**Sub Group - DIN G S 17 CrMo 5-5 Steel Castings for Pressure Purposes; Steel Grades for Use at Room Temperature and Elevated Temperatures**

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

**Grade Belongs to the Industry - Casting**

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.200	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.300 - 0.600		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	1.000 - 1.500		
Molybdenum	Mo %	0.450 - 0.550		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	490 - 640
			Yield Strength in Mpa	315 min.
			Elongation in %	20 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	24 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-217 Grade WC6	ASME	USA	Casting
G 17 CrMo 5-5	AFNOR NF	France	Casting
A426 Grade CP11	ASTM	USA	Steel
621	BS	British	Plate
J12072	UNS	USA	Casting
G 17 CrMo 5-5	EN	European Union	Casting
A217 Grade WC6	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](mailto: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**