



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - EN 1.7706

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 - EN 10213-2 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 %	0.600 max.		
Manganese	Mn %	0.500 - 0.900		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	1.200 - 1.500		
Molybdenum	Mo %	0.900 - 1.100		
Vanadium	V %	0.200 - 0.300		
Tin	Sn %	0.025 max.		
Nickel	Ni %	0.400 max.		
Copper	Cu %	0.300 max.	Mechanical Properties Tensile Strength in Mpa 590 - 780 Yield Strength in Mpa 440 min. Elongation in % 15 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 27 J @ RT	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
422744	CSN	Czech Republic	Casting
J21610	UNS	USA	Casting
1.7706	DIN	Germany	Casting
G 17 CrMoV 5-10	AFNOR NF	France	Casting
G 17 CrMoV 5-10	UNI	Italy	Casting
L 17 HMF	PN	Poland	Casting
A356 9	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.

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