

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	
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.	Normalizing or Annealing or Hardening + Tempering
Nickel	Ni %	0.400 max.	
Copper	Cu %	0.300 max.	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	

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	

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

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Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India