



## Material - BS 10213 EN 1.7720

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS 10213 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 - 0.150	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.450 max.		
Manganese	Mn %	0.400 - 0.700		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	0.300 - 0.500		
Nickel	Ni %	0.400 max.		
Molybdenum	Mo %	0.400 - 0.600		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.220 - 0.300		
Tin	Sn %	0.025 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	510 - 660
-	-	-	Yield Strength in Mpa	295 min.
-	-	-	Elongation in %	17 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	27 min. @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.772	EN	European Union	Casting
1.772	DIN	Germany	Casting
660	BS	British	Steel and Plate
G 12 MoCrV 5 2	EN	European Union	Casting
G 12 MoCrV 5-2	DIN	Germany	Casting
G12MoCrV5-2	AFNOR NF	France	Casting
G12MoCrV5-2	UNI	Italy	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)**

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