



## Material - UNI G12MoCrV5-2

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - UNI G 12 MoCrV5-2 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				
Molybdenum	Mo %	0.400 - 0.600				
Nickel	Ni %	0.400 max.				
Vanadium	V %	0.220 - 0.300				
Tin	Sn %	0.025 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	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 J @ RT		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.7720	EN	European Union	Casting
1.772	EN	European Union	Casting
1.772	DIN	Germany	Steel and Plates
660	BS	British	Casting
G 12 MoCrV 5-2	DIN	Germany	Casting
G12MoCrV5-2	EN	European Union	Casting
G12MoCrV5-2	AFNOR NF	France	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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