



Material - AFNOR NF G12MoCrV5-2

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - AFNOR NF 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		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

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	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

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