



Material - SFS G 12 MoCrV 5 2

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - EN G 12 MoCr 5 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	Normalizing or Quenching or Solution Annealing	
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.		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.220 - 0.300		
Tin	Sn %	0.025 max.	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	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 G12MoCrV5-2	BS	British	Plate, Tubes and Forging
G12MoCrV5-2	ISO	International	Casting
1.7720	ISO	International	Casting
G 12 MoCrV 5 2	CSN	Czech Republic	Casting
G 12 MoCrV 5 2	EN	European Union	Casting
G 12 MoCrV 5 2	AFNOR NF	France	Casting
G 12 MoCrV 5 2	DIN	Germany	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.