

Material: ISO G12MoCrV5-2

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: ISO G12MoCrV5-2 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.100 - 0.150
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
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

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
EN 10213 G12MoCrV5-2	BS	British	Plate, Tubes and Forging
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	SFS	Finland	Casting
G 12 MoCrV 5 2	AFNOR NF	France	Casting
G 12 MoCrV 5 2	DIN	Germany	Casting

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