



Material - BS 10213 EN GX 23 CrMoV 12 1

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless 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 %	0.200 - 0.260		
Silicon	Si %	0.400 max.	Normalising or Annealing or Hardening + Tempering	
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	11.300 - 12.200		
Nickel	Ni %	1.000 max.		
Molybdenum	Mo %	1.000 - 1.200		
Copper	Cu %	0.300 max.	Mechanical Properties	
Vanadium	V %	0.250 - 0.350	Tensile Strength in Mpa	740 - 880
Tungsten	W %	0.500 max.	Yield Strength in Mpa	540 min.
Iron	Fe %	Balance	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-		Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	27 min. @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
1.4931	EN	European Union	Casting	
1.4931	BS	British	Casting	
1.4931	DIN	Germany	Casting	
GX23CrMoV12-1	AFNOR NF	France	Casting	
G-X22CrMoV121	ONORM	Australia	Casting	
OTA23VMoCr120	STAS	Romania	Casting	
GX23CrMoV12-1	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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