



## Material - UNI G X 23 CrMoV 12-1

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - UNI G X 23 CrMoV 12-1 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	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	11.300 - 12.200		
Molybdenum	Mo %	1.000 - 1.200		
Nickel	Ni %	0.100 max.		
Vanadium	V %	0.250 - 0.350		
Tungsten	W %	0.500 max.		
Copper	Cu %	0.300 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa      740 - 880 Yield Strength in Mpa      540 min. Elongation in %      15 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
1.4931	EN	European Union	Casting
1.4931	DIN	Germany	Casting
1.4931	DIN	Germany	Casting
GX23CrMoV12-1	EN	European Union	Casting
GX23CrMoV12-1	AFNOR NF	France	Casting
G-X22CrMoV121	ONORM	Australia	Casting
OTA23VMoCr120	STAS	Romania	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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