



## Material - BDS GX23CrMoV12-1

## **Standard Specification for Steel Castings for Pressure Purposes**

**Group - Ferrous Stainless Steel Alloys** 

Sub Group - BDS GX23CrMoV12-1 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		
Silicon	Si %	0.400 max.	Normalizing or Quenching or Solution Annealing	
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 %	1.000 max.		-
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	-
-	-	-	Impact in Joule	27 J @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
GX23CrMoV12-1	BS	British	Plate, Tubes and Forging	
GX23CrMoV12-1	ISO	International	Casting	
1.4931	ISO	International	Casting	
GX23CrMoV12-1	ONORM	Australia	Casting	
GX23CrMoV12-1	NBN	Belgium	Casting	
GX23CrMoV12-1	CSN	Czech Republic	Casting	
GX23CrMoV12-1	EN	European Union	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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