GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10213 GX23CrMoV12-1 I 1.4931

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10213 GX23CrMoV12-1 I 1.4931 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 %	0.200 - 0.260
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 %	1.000 max.
Copper	Cu %	0.300 max.
Vanadium	V %	0.250 - 0.350
Tungsten	W %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Normalizing or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	740 - 880
Proof Strength in Mpa	540 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	27 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10213-2 GX23CrMoV 12-1	AFNOR NF	France	Casting
17245 G-X 22 CrMoV 12 1	DIN	Germany	Casting
EN 10213-2 GX 23 CrMoV 12-1	DIN	Germany	Casting
M 3182 G-X 22 CrMoV 12 1	ONORM	Australia	Steel
EN 10213-2 G X 23 CrMoV 12-1	UNI	Italy	Casting
10213-2 GX 23 CrMoV 12 1	EN	European Union	Casting
10213-2 1.4931	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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