



Material - DIN 1.4931

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - DIN 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			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.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	690 - 880
-	-	-	Yield Strength in Mpa	540 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	21 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4931	EN	European Union	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
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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