GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10088-1 1.4935 (X20CrMoWV12-1)

Standard Specification for Stainless Steel

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10088-1 1.4935 (X20CrMoWV12-1) Stainless Steel

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.170 - 0.240
Silicon	Si %	0.100 - 0.500
Manganese	Mn %	0.300 - 0.800
Phosphorus	P %	0.025 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	11.000 - 12.500
Molybdenum	Mo %	0.800 - 1.200
Nickel	Ni %	0.300 - 0.800
Vanadium	V %	0.200 - 0.350
Tungsten	W %	0.400 - 0.600
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	-
Proof Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HRB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
X 20 CrMoWV 12-1	DIN	Germany	Steel
1.4935	DIN	Germany	Steel
1.4934	DIN	Germany	Steel
17243 X 20 CrMoV 12 1	DIN	Germany	Steel and Bars
17176 X 20 CrMoV 12 1	DIN	Germany	Steel and Tubing
17175 X 20 CrMoV 12 1	DIN	Germany	Steel and Tubing
9327-2 X 20 CrMoV 121	ISO	International	Steel

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.