GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10269 X19CrMoNbVN11-1 I 1.4913

Standard Specification for Steel and Nickel Alloys for Fasteners with Specified Elevated and/or Low Temperature Properties

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10269 X19CrMoNbVN11-1 I 1.4913 Steel and Nickel Alloys for Fasteners with Specified Elevated and/or Low Temperature Properties

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.170 - 0.230
Silicon	Si %	0.500 max.
Manganese	Mn %	0.400 - 0.900
Phosphorus	P %	0.025 max.
Sulphur	S %	0.015 max.
Aluminium	Al %	0.020 max.
Boron	B %	0.0015 max.
Chromium	Cr %	10.000 - 11.500
Molybdenum	Mo %	0.500 - 0.800
Nickel	Ni %	0.200 - 0.600
Vanadium	V %	0.100 - 0.300
Niobium	Nb %	0.250 - 0.550
Nitrogen	N %	0.050 - 0.100
Iron	Fe %	Balance
-	-	-

Heat Treatment
As-Raw or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	900 - 1050
Proof Strength in Mpa	750 min.
Elongation in %	12 min.
Reduction of Area in %	40 min.
Hardness in HBW	-
Impact in Joule	20 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
17240 1.4913	DIN	Germany	Steel
17240 X 19 CrMoVNbN 11 1	DIN	Germany	Steel
A 35-578 Z 21 CDNbV 11	AFNOR NF	France	Steel
E 29-043 Z 20 CDNbV 11	AFNOR NF	France	Steel
A 35-578 Z 20 CDNbV 11	AFNOR NF	France	Steel
84024 15 H 11 MF	PN	Poland	Steel
5632 15Ch11MF	GOST	Russia	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

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