GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10302 1.4935 (X20CrMoWV12-1)

Standard Specification for Creep Resisting Steel, Nickel and Cobalt Alloys

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10302 1.4935 (X20CrMoWV12-1) Creep Resisting Steel, Nickel and Cobalt Alloys

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 %	0.250 - 0.350
Tungsten	W %	0.400 - 0.600
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	800 - 950
Proof Strength in Mpa	600 min.
Elongation in %	-
Reduction of Area in %	14 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S42100	UNS	USA	Steel
A 771 S42100	ASTM	USA	Steel and Tubing
A 826 S42100	ASTM	USA	Steel and Tubing
A 831 S42100	ASTM	USA	Steel, Bars and Forging
H 84024 23 H 12 MNF	PN	Poland	Steel
X 20 CrMoWV 12-1	DIN	Germany	Steel
1.4935	DIN	Germany	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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