GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10222-2 1.4922 (X20CrMoV11-1)

Standard Specification for Ferritic and Martensitic Steels With Specified Elevated Temperatures Properties

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10222-2 1.4922 (X20CrMoV11-1) Ferritic and Martensitic Steels With Specified Elevated Temperatures Properties

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

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.170 - 0.230
Silicon	Si %	0.400 max.
Manganese	Mn %	0.300 - 1.000
Phosphorus	P %	0.025 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	10.000 - 12.500
Molybdenum	Mo %	0.800 - 1.200
Nickel	Ni %	0.300 - 0.800
Vanadium	V %	0.200 - 0.350
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	750 - 850
Yield Strength in Mpa	500 min.
Elongation in %	16 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	39 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
9327-2 X 20 CrMoV 121	ISO	International	Steel and Bars
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
17243 1.4922	DIN	Germany	Steel and Bars
17176 1.4922	DIN	Germany	Steel and Tubing
17175 1.4922	DIN	Germany	Steel and Tubing

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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