GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10088-1 1.4681 (X5CrNiMnMoNNbV22-12-5-2)

Standard Specification for Stainless Steel

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10088-1 1.4681 (X5CrNiMnMoNNbV22-12-5-2) Stainless Steel

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.060 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	4.000 - 6.000
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	20.500 - 23.500
Molybdenum	Mo %	1.500 - 3.000
Nickel	Ni %	11.500 - 13.500
Nitrogen	N %	0.200 - 0.400
Niobium	Nb %	0.100 - 0.300
Vanadium	V %	0.100 - 0.300
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	-

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S20910	UNS	USA	Steel
J93790	UNS	USA	Steel
2837 209	AS	Australia	Steel and Bars
A 240 Type XM-19	ASTM	USA	Plate, Sheet and Strip
A 249 TPXM-19	ASTM	USA	Steel and Tubing
SA-240 Type XM19	ASME	USA	Plate, Sheet and Strip
SA-249 Grade TP XM-19	ASME	USA	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

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.