GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-240 Type XM-19

Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate,Sheet and Srtip for Pressure Vessels and for General Applications

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-240 Type XM-19 Chromium and Chromium-Nickel Stainless Steel Plate,Sheet and Srtip for Pressure Vessels and for General Applications

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

Grade Belongs to the Industry - Plate, Sheet and Strip

Chemical Composition		
Carbon	C %	0.060 max.
Manganese	Mn %	4.000 - 6.000
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Silicon	Si %	0.750 max.
Chromium	Cr %	20.500 - 23.500
Nickel	Ni %	11.500 - 13.500
Molybdenum	Mo %	1.500 - 3.000
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

Mechanical Properties	
Tensile Strength in Mpa	725 min.
Yield Strength in Mpa	415 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	241 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S20910	UNS	USA	Steel
A 479 XM-19	ASTM	USA	Steel and Bars
A 580 Type XM-19	ASTM	USA	Steel and Wire
A 358 XM-19	ASTM	USA	Steel and Pipe
A 412 Type XM-19	ASTM	USA	Plate, Sheet and Strip
A 314 XM-19	ASTM	USA	Steel and Bars
J 405 XM-19	SAE	USA	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.