GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-312 N08020

Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-312 N08020 Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries
Grade Belongs to the Industry - Steel and Pipe

Chemical Composition		
Carbon	C %	0.070 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.035 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	19.000 - 21.000
Nickel	Ni %	32.000 - 38.000
Molybdenum	Mo %	2.000 - 3.000
Copper	Cu %	3.000 - 4.000
Nb + Ta	Nb%+Ta%	0.008 - 1.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	550 min.
Yield Strength in Mpa	240 min.
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
SA-182 Grade F 20	ASME	USA	Steel and Forging
A 240 N08020	ASTM	USA	Plate, Sheet and Strip
A 182 F 20	ASTM	USA	Steel and Pipe
A 358 N08020	ASTM	USA	Steel and Pipe
A 959 N08020	ASTM	USA	Steel
17744 NiCr20CuMo	DIN	Germany	Steel
17744 2.4660	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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