GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS ISO 16143-1 X1CrNiMoCuNW24-22-6 (4659-312-66-I)

Standard Specification for Stainless Steels for General Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS ISO 16143-1 X1CrNiMoCuNW24-22-6 (4659-312-66-I) Stainless Steels for General Purposes

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.020 max.
Silicon	Si %	0.700 max.
Manganese	Mn %	2.000 - 4.000
Phosphorus	P %	0.030 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	23.000 - 25.000
Molybdenum	Mo %	5.500 - 6.500
Nickel	Ni %	21.000 - 23.000
Nitrogen	N %	0.350 - 0.500
Copper	Cu %	1.000 - 2.000
Tungsten	W %	1.500 - 2.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	800 - 1000
Proof Strength in Mpa	460 min.
Elongation in %	40 min.
Reduction of Area in %	-
Hardness in HBW	-
Impact in Joule	100 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S31266	UNS	USA	Steel
A 240 31266	ASTM	USA	Plate, Sheet and Strip
A 358 S31266	ASTM	USA	Steel and Pipe
A 959 S31266	ASTM	USA	Steel
A 182 F 58	ASTM	USA	Steel and Pipe
SA-240 S31266	ASME	USA	Plate, Sheet and Strip
SA-182 F 58	ASME	USA	Steel and Pipe

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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