GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS ISO 16143-1 X9CrMnNiCu17-8-5-2 (4618-201-76-E)

Standard Specification for Stainless Steels for General Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS ISO 16143-1 X9CrMnNiCu17-8-5-2 (4618-201-76-E) 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 %	0.100 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	5.500 - 9.500
Phosphorus	P %	0.070 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	16.500 - 18.500
Nickel	Ni %	4.500 - 5.500
Nitrogen	N %	0.150 max.
Copper	Cu %	1.000 - 2.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	540 - 850
Proof Strength in Mpa	250 min.
Elongation in %	45 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**
S20100	UNS	USA	Steel
SA-213 TP201	ASME	USA	Steel and Tubing
SA-240 201LN	ASME	USA	Steel
SA-276 201	ASME	USA	Steel, Bars and Shapes
A 240 Type 201LN	ASTM	USA	Plate, Sheet and Strip
A 240 Type 201	ASTM	USA	Plate, Sheet and Strip
A 959 Type 201LN	ASTM	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.