



**GRAVITY CAST PVT. LTD.**  
GRAVITY GROUP OF COMPANIES

## Material - ASTM A240 UNS N08904

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A240 Chromium and Chromium-Nickel Stainless Steel for Pressure Vessels and for General Applications

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

Grade Belongs to the Industry - Steel, Plate, Sheet and Strip

Chemical Composition			Heat Treatment			
Carbon	C %	0.020 max.	Solution Annealing			
Silicon	Si %	1.000 max.				
Manganese	Mn %	2.000 max.				
Phosphorus	P %	0.045 max.				
Sulphur	S %	0.035 max.				
Chromium	Cr %	19.000 - 23.000				
Nickel	Ni %	23.000 - 28.000				
Molybdenum	Mo %	4.000 - 5.000				
Nitrogen	N %	0.100 max.				
Copper	Cu %	1.000 - 2.000				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	490 min.		
-	-	-	Yield Strength in Mpa	220 min.		
-	-	-	Elongation in %	35 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in HB	-		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SUS 890L	JIS	Japan	Steel, Plate, Sheet and Strip
TU Z 1 NCDU 25 20 04	AFNOR NF	France	Steel and Tube
X1NiCrMoCu25 20 5	EN	European Union	Forging
X1NiCrMoCu25-20-5	UNI	Italy	Steel, Plate, Sheet and Strip
X1NiCrMoCu25 20 5	DIN	Germany	Rolling and Forging
STS 890L	KS	Korea	Steel, Plate, Sheet and Strip
2CuMoCrNi 250	STAS	Romania	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](mailto: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.

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