



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

## Material - ASTM A 790 S31260

**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 A 790 S31260 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 and Pipe**

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	24.000 - 26.000		
Molybdenum	Mo %	2.500 - 3.500		
Nickel	Ni %	5.500 - 7.500	<b>Mechanical Properties</b> Tensile Strength in Mpa      690 min. Yield Strength in Mpa      450 min. Elongation in %      25 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
Nitrogen	N %	0.100 - 0.300		
Copper	Cu %	0.200 - 0.800		
Tungsten	W %	0.100 - 0.500		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S31260	ASTM	USA	Steel, Plate, Sheet and Strip
S31260	UNS	USA	Steel
A789 S31260	ASTM	USA	Steel and Tube
A928 S31260	ASTM	USA	Steel and Pipe
A959 S31260	ASTM	USA	Steel
SA-240 UNS S31260	ASME	USA	Steel
SA-789 UNS S31260	ASME	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](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.

**ONE STOP SOLUTION FOR METAL PARTS**