



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

## Material - ASTM A 276 316Cb

**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 276 316Cb 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, Bar and Shapes**

Chemical Composition			Heat Treatment			
Carbon	C %	0.080 max.	Solution Annealing			
Silicon	Si %	1.000 max.				
Manganese	Mn %	2.000 max.				
Phosphorus	P %	0.045 max.				
Sulphur	S %	0.030 max.				
Chromium	Cr %	16.000 - 18.000				
Molybdenum	Mo %	2.000 - 3.000				
Nickel	Ni %	10.000 - 14.000				
Niobium	Nb %	1.100 max.				
Nitrogen	N %	0.100 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	515 min.		
-	-	-	Yield Strength in Mpa	205 min.		
-	-	-	Elongation in %	30 min.		
-	-	-	Reduction of Area in %	40 min.		
-	-	-	Hardness in BHN	-		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S31640	ASTM	USA	Steel, Plate, Sheet and Strip
316Cb	SAE	USA	Steel
A314 316Cb	ASTM	USA	Steel, Bar, Rolling and Forging
A479 316Cb	ASTM	USA	Steel and Bar
A167 Type 316Cb	ASTM	USA	Steel, Sheet, Strip and Plate
A368 Type 316Cb	ASTM	USA	Steel and Wire
A959 Type 316Cb	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](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**