



## Material - ASTM A240 UNS S41500

**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 %	0.050 max.	Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 1.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	11.500 - 14.000		
Nickel	Ni %	3.500 - 5.500		
Molybdenum	Mo %	0.500 - 1.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	795 min.
-	-	-	Yield Strength in Mpa	620 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	302 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A352 CA6NM	ASTM	USA	Casting
A356 CA6NM	ASTM	USA	Casting
A487 CA6NM	ASTM	USA	Casting
SA-352 Grade CA6NM	ASME	USA	Casting
SA-487 Grade CA6NMA	ASME	USA	Casting
SA-487 Grade CA6NMB	ASME	USA	Casting
SA-487 Class CA6NM	ASME	USA	Casting

**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)**

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