

Material - SAE 439

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 - SAE 439 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

Chemical Composition			Heat Treatment	
Carbon	C %	0.070 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	Р%	0.040 max.	Annealing or Hardening + Tempering	
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	0.500 max.		
Nitrogen	N %	0.040 max.		
Titanium	Ti %	1.100 max.	Mechanical Properties	
Aluminium	Al %	0.150 max.	Tensile Strength in Mpa	455 min.
Iron	Fe %	Balance	Yield Strength in Mpa	290 min.
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	73 max.
-	-		Impact in Joule	-

Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
A240 UNS S43035	ASTM	USA	Steel, Plate, Sheet and Strip		
S43035	UNS	USA	Steel		
A959 S43035	ASTM	USA	Steel		
A479 439	ASTM	USA	Steel and Bar		
A803 Grade TP 439	ASTM	USA	Steel and Tube		
A959 Type 439	ASTM	USA	Steel		
SA-240 439	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

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