

Material - KS STS 405

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 - KS STS 405 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 Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	Р%	0.040 max.	Annealing or Hardening + Tempering	g + Tempering
Sulphur	S %	0.030 max.		
Chromium	Cr %	11.500 - 14.500		
Nickel	Ni %	0.600 max.		
Aluminium	Al %	0.100 - 0.300		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	410 - 780
-	-	-	Yield Strength in Mpa	175 min.
	-	-	Elongation in %	20 min.
	-	-	Reduction of Area in %	60 min.
-	-	-	Hardn <mark>ess in HB</mark>	183 max.
-	-	-	Impac <mark>t in Joule</mark>	-
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Cross Reference Table				
Material	Standard	Country	y Grade Belong to the Industry	
A240 UNS S40500	ASTM	USA	Steel, Plate, Sheet and Strip	
S40500	UNS	USA	Steel	
405	AISI	USA	Steel	
405	AMS	USA	Sheet, Bar, Wire, Shape and Forging	
405	AS	Australia	Steel, Sheet, Plate and Strip	
405	SAE	USA	Sheet, Bar, Wire, Shape and Forging	
SUS 405	JIS	Japan	Steel, Plate and Sheet	

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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