GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A1028 Grade A Class 2

Standard Specification for Stainless Steel Bars for Compressor and Turbine Airfoils

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A1028 Grade A Class 2 Stainless Steel Bars for Compressor and Turbine Airfoils

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Bars

Chemical Composition		
Carbon	C %	0.150 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.018 max.
Sulphur	S %	0.015 max.
Silicon	Si %	0.500 max.
Nickel	Ni %	0.750 max.
Chromium	Cr %	11.500 - 13.000
Molybdenum	Mo %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Quenching & Tempering or Age-Hardening or Stress Relieved

Mechanical Properties	
Tensile Strength in Mpa	758 min.
Yield Strength in Mpa	552 min.
Elongation in %	18 min.
Reduction of Area in %	50 min.
Hardness in HB	269 max.
Impact in Joule	25 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S41000	UNS	USA	Bars
970-3 410 S 21	B.S.	United Kingdom	Steel and Bars
EN 10088-2 1.4006	DIN	Germany	Steel
EN 10088-3 X12Cr13	DIN	Germany	Steel
G 4312 SUS 410	JIS	Japan	Plate and Sheet
A 815 Grade WP410	ASTM	USA	Steel and Pipe
683-13 3	ISO	International	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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