GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A355 Class A

Standard Specification for Steel Bars, Alloys, for Nitriding

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A355 Class A Steel Bars, Alloys, for Nitriding

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

Grade Belongs to the Industry - Bars

Chemical Composition		
Carbon	C %	0.380 - 0.430
Manganese	Mn %	0.500 - 0.700
Phosphorus	P %	0.035 max.
Sulphur	S %	0.040 max.
Silicon	Si %	0.150 - 0.350
Chromium	Cr %	1.400 - 1.800
Aluminium	Al %	0.950 - 1.300
Molybdenum	Mo %	0.300 - 0.400
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	223 - 269
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
970 En41A	B.S.	United Kingdom	Steel
970-2 905 M 31	B.S.	United Kingdom	Steel
970 En41B	B.S.	United Kingdom	Steel
970-1 905 M 39	B.S.	United Kingdom	Steel
970-2 905 M 39	B.S.	United Kingdom	Steel
A 519 E7140	ASTM	USA	Tubing
1.8509	DIN	Germany	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

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.