GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A355 Class B

Standard Specification for Steel Bars, Alloys, for Nitriding

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A355 Class B 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 %	0.350 - 0.400
Manganese	Mn %	0.700 - 0.950
Phosphorus	P %	0.035 max.
Sulphur	S %	0.060 max.
Silicon	Si %	0.150 - 0.350
Chromium	Cr %	1.200 - 1.500
Aluminium	Al %	0.950 - 1.300
Molybdenum	Mo %	0.150 - 0.250
Selenium	Se %	0.150 - 0.250
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**
K23745	UNS	USA	Steel
34 CrAlS 5	DIN	Germany	Steel
1.8506	DIN	Germany	Steel
17211 1.8507	DIN	Germany	Steel
17779 34 CrAlMo 5 4	MSZ	Hungary	Steel
36014 34 CrAlMo 5	UNE	Spain	Steel
253-04 34 CrAlMo 5	NBN	Belgium	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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