GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A322 Grade 8645

Standard Specification for Steel Bars, Alloy, Standard Grades

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A322 Grade 8645 Steel Bars, Alloy, Standard Grades

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

Grade Belongs to the Industry - Bars

Chemical Composition		
Carbon	C %	0.430 - 0.480
Manganese	Mn %	0.750 - 1.000
Phosphorus	P %	0.035 max.
Sulphur	S %	0.040 max.
Silicon	Si %	0.150 - 0.350
Nickel	Ni %	0.400 - 0.700
Chromium	Cr %	0.400 - 0.600
Molybdenum	Mo %	0.150 - 0.250
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Spheroidize Annealing or Stress Relieved

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

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G86450	UNS	USA	Steel
1444 8645	AS	Australia	Steel
J 1397 8645	SAE	USA	Steel and Bars
J 412 8645	SAE	USA	Steel
J 404 8645	SAE	USA	Steel
A 29 8645	ASTM	USA	Steel and Bars
A 505 8645	ASTM	USA	Sheet and Strip

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.